DEVELOPMENT SERVICES DEPARTMENT
ENVIRONMENTAL COORDINATOR
450 110th Ave NE., P.O. BOX 90012
BELLEVUE, WA 98009-9012

OPTIONAL DETERMINATION OF NON-SIGNIFICANCE (DNS) NOTICE MATERIALS

The attached materials are being sent to you pursuant to the requirements for the Optional DNS Process (WAC 197-11-355). A DNS on the attached proposal is likely. This may be the only opportunity to comment on environmental impacts of the proposal. Mitigation measures from standard codes will apply. Project review may require mitigation regardless of whether an EIS is prepared. A copy of the subsequent threshold determination for this proposal may be obtained upon request.

File No. 21-132432

Project Name/Address: COB PCD 164th Ave NE LID Retrofit; 164th Ave NE between NE 8th St & Northup Way

Planner: David Wong
425-452-4282
DWong@bellevuewa.gov

Minimum Comment Period: 1/27/22

Materials included in this Notice:

- ☑ Blue Bulletin
- ☑ Checklist
- ☑ Vicinity Map
- ☑ Plans
- ☐ Other:

OTHERS TO RECEIVE THIS DOCUMENT:

- ☑ State Department of Fish and Wildlife
- ☑ State Department of Ecology, Shoreline Planner N.W. Region
- ☑ Army Corps of Engineers
- ☑ Attorney General
- ☑ Muckleshoot Indian Tribe

SEPA Checklist Reviewed by:
David Wong on 12/27/2021

SEPA ENVIRONMENTAL CHECKLIST

Purpose of checklist:

Governmental agencies use this checklist to help determine whether the environmental impacts of your proposal are significant. This information is also helpful to determine if available avoidance, minimization or compensatory mitigation measures will address the probable significant impacts or if an environmental impact statement will be prepared to further analyze the proposal.

Instructions for applicants:

This environmental checklist asks you to describe some basic information about your proposal. Please answer each question accurately and carefully, to the best of your knowledge. You may need to consult with an agency specialist or private consultant for some questions. You may use "not applicable" or "does not apply" only when you can explain why it does not apply and not when the answer is unknown. You may also attach or incorporate by reference additional studies reports. Complete and accurate answers to these questions often avoid delays with the SEPA process as well as later in the decision-making process.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

Instructions for Lead Agencies:

Please adjust the format of this template as needed. Additional information may be necessary to evaluate the existing environment, all interrelated aspects of the proposal and an analysis of adverse impacts. The checklist is considered the first but not necessarily the only source of information needed to make an adequate threshold determination. Once a threshold determination is made, the lead agency is responsible for the completeness and accuracy of the checklist and other supporting documents.

Use of checklist for nonproject proposals:

For nonproject proposals (such as ordinances, regulations, plans and programs), complete the applicable parts of sections A and B plus the SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS (part D). Please completely answer all questions that apply and note that the words "project," "applicant," and "property or site" should be read as "proposal," "proponent," and "affected geographic area," respectively. The lead agency may exclude (for non-projects) questions in Part B - Environmental Elements –that do not contribute meaningfully to the analysis of the proposal.

A. Background [HELP]

1. Name of proposed project, if applicable:

164th Ave NE Impervious Sidewalk Removal and LID Retrofit

2. Name of applicant:

City of Bellevue – Community Development, Scott MacDonald

3. Address and phone number of applicant and contact person:

DW

Scott MacDonald 425.452.4852
City of Bellevue
PO Box 90012, Bellevue, WA, 98004

4. Date checklist prepared:
   7/22/2019
5. Agency requesting checklist:
   Washington State Department of Ecology
6. Proposed timing or schedule (including phasing, if applicable):
   Preconstruction: 7/22/2019 – 1/31/2021. Construction May 2021- May 2022
7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.
   No.
8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.
   1. Kelsey Creek Storm Basin Fact Sheet 2010. 2. Geotechnical Investigation of project site – TBD August 2019
9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.
   No.
10. List any government approvals or permits that will be needed for your proposal, if known.
   ROW Use Permit 19-105236 TK for geotechnical investigation
11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)
   This project will improve water quality in Kelsey Creek through implementation of stormwater Best Management Practices at 164th Ave Ne in the City of Bellevue. This project will provide a bioswale for stormwater runoff that will remove pollutants and reduce peak flows to Kelsey Creek.
   Existing grass ditch in ROW (2600'x 15') to be excavated to a depth of 36" and amended with a bioswale soil mix. Existing asphalt path to be removed and replaced with pervious sidewalk system or concrete path with permeable ballast below.

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.
Section 25, Township 25, Range 5
164th Ave NE from NE 8th St to Northup Way, ROW ditch and asphalt path on east side of roadway

B. Environmental Elements [HELP]

1. *Earth* [help]

DW

a. General description of the site:
FLAT.
(circle one): Flat, rolling, hilly, steep slopes, mountainous, other _____

b. What is the steepest slope on the site (approximate percent slope)?

Grade of street from north to south is approximately 1% or less. At the north end of the site, the slope descends to the east from the ROW line onto private property at approximately 8%.

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils.

Using the NCRS soil survey data, the site is classified AmC, Arents, Alderwood Material. The typical profile is gravelly sandy loam to very gravelly sandy loam. The site is not classified as prime agricultural land.

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

No. The site is within an established residential neighborhood. There is no known history of mass wasting or landslides on or near the site.

e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill.

ROW ditch and path approximately 2600 feet long x 15 feet wide, to be excavated to a depth of approximately 36". Running slope of the project swale and path will not change significantly relative to the existing roadway. Swale soil fill will be a special mix to improve drainage in rain gardens. All soil and gravel fill to be sourced from commercial providers.

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.

Limited erosion of soil in swale may occur before or during plant establishment. The opportunity for erosion of soil in swale will decrease as plantings mature.

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

There will be no net increase to the impervious cover of the site.

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:

Appropriate erosion control measures will be implemented on site during construction, including but not limited to catch basin inlet protection, wattles, silt fencing, and compost sock installation at catch basins. Erosion Control regulated by BCC 23.76

2. Air [help]

a. What types of emissions to the air would result from the proposal during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known.

Dust may result from excavation and removal of asphalt pathway, as well as emissions from gas-powered equipment. Routine maintenance of the completed project may include the use of gas powered blowers to clear hard surfaces of debris.

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

No.

DW

c. Proposed measures to reduce or control emissions or other impacts to air, if any:

Enhanced shrub landscaping in project bioswale will replace existing turf and eliminate the need to perform maintenance with gas-powered mowers and edgers.

3. Water [help]

a. Surface Water: [help]

1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

Runoff from some parts of the site may be conveyed to catch basins upstream of Kelsey Creek, 0.96 miles away. There is no surface water body in the immediate vicinity of the site.

2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

No, the site is nearly one mile from Kelsey Creek.

3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

No fill or dredge material will be placed in or removed from surface water or wetlands.

4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.

The proposal will not require surface water withdrawals or diversions.

5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.

The proposal does not lie within a 100 year floodplain.

6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

None.

b. Ground Water: [help]

1) Will groundwater be withdrawn from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to groundwater? Give general description, purpose, and approximate quantities if known.

No.

2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals. . . ; agricultural; etc.). Describe the general size of the system, the

DW

number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

None.

c. Water runoff (including stormwater):

1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

Currently, runoff from the road and asphalt path flow into ditch and area catch basin with outflow to Kelsey Creek. The project creates an improved bioswale to receive and treat runoff from approximately 2.5 acres of roadway on 164th Ave NE.

2) Could waste materials enter ground or surface waters? If so, generally describe.

Waste materials on roadway are currently draining to Kelsey Creek. Project will provide opportunity to infiltrate runoff and capture pollutants in swale soils.

3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.

Same as above.

d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any:

Project will provide opportunity to infiltrate runoff and capture pollutants in swale soils.

4. Plants [help]

a. Check the types of vegetation found on the site:

____deciduous tree: alder, maple, aspen, other
__x_evergreen tree: fir, cedar, pine, other
____shrubs
__x_grass
____pasture
____crop or grain
____ Orchards, vineyards or other permanent crops.
____ wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other
____water plants: water lily, eelgrass, milfoil, other
____other types of vegetation

b. What kind and amount of vegetation will be removed or altered?

Approximately 26000 SF of turf will be replaced with enhanced swale planting. Several evergreen trees may be evaluated for removal pending consultant opinion. Tree removals to be mitigated whenever possible and appropriate.

c. List threatened and endangered species known to be on or near the site.

None.

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

DW

The renovated LID facility is to be planted with a mix of native and adapted shrubs, grasses, and perennials chosen for swale performance and aesthetic qualities.

e. List all noxious weeds and invasive species known to be on or near the site.

Common catsear – C, Creeping buttercup

5. Animals [help]

a. List any birds and other animals which have been observed on or near the site or are known to be on or near the site.

Songbirds.

Examples include:

birds: hawk, heron, eagle, songbirds, other:
mammals: deer, bear, elk, beaver, other:
fish: bass, salmon, trout, herring, shellfish, other _____

b. List any threatened and endangered species known to be on or near the site.

None.

c. Is the site part of a migration route? If so, explain.

No.

d. Proposed measures to preserve or enhance wildlife, if any:

Enhanced swale plantings may include species that provide food or habitat for wildlife.

e. List any invasive animal species known to be on or near the site.

None

6. Energy and Natural Resources [help]

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

Gasoline/diesel fuel will be used in the demolition and construction phase of the project.

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

No.

c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:

Described in 2c.

7. Environmental Health [help]

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe.

No.

DW

1) Describe any known or possible contamination at the site from present or past uses.

Site is currently an underperforming conveyance ditch receiving runoff from 164th Ave Ne. May be receiving hydrocarbon and heavy metal pollution from road surface and automobile traffic.

2) Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity.

None found on NPMS public view maps.

3) Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project.

None.

4) Describe special emergency services that might be required.

None.

5) Proposed measures to reduce or control environmental health hazards, if any:

Swale plant palette will not include species producing fruits or vegetables for human consumption.

b. Noise

1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

Traffic noise

2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.

Construction noise during construction hours.

3) Proposed measures to reduce or control noise impacts, if any:

ROW use permit limits hours to 7:00 AM to 4:00 PM, Monday through Friday

Noise regulated by BCC 9.18

8. Land and Shoreline Use [help]

a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe.

Adjacent properties on east side of 164th Ave NE are single family residences. The proposal will not affect current land uses.

b. Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of long-term commercial significance will be converted to other uses as a result of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to nonfarm or nonforest use?

Not applicable.

1) Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how:

DW

No.

c. Describe any structures on the site.

None.

d. Will any structures be demolished? If so, what?

No.

e. What is the current zoning classification of the site?

City of Bellevue ROW, adjacent Single Family Residence R-5 Residential Zoning

f. What is the current comprehensive plan designation of the site?

Single Family High Density

g. If applicable, what is the current shoreline master program designation of the site?

Not applicable

h. Has any part of the site been classified as a critical area by the city or county? If so, specify.

No.

i. Approximately how many people would reside or work in the completed project?

None.

j. Approximately how many people would the completed project displace?

None.

k. Proposed measures to avoid or reduce displacement impacts, if any:

None.

L. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

Stormwater retrofit in ROW is aligned with city water quality goals.

m. Proposed measures to reduce or control impacts to agricultural and forest lands of long-term commercial significance, if any:

None needed.

9. Housing [help]

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

0.

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

0.

DW

c. Proposed measures to reduce or control housing impacts, if any:

0.

10. Aesthetics [help]

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

There are no proposed structures in this project.

b. What views in the immediate vicinity would be altered or obstructed?

None.

b. Proposed measures to reduce or control aesthetic impacts, if any:
Enhanced planting will be an aesthetic improvement.

11. Light and Glare [help]

a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

None.

b. Could light or glare from the finished project be a safety hazard or interfere with views?

None.

c. What existing off-site sources of light or glare may affect your proposal?

None.

d. Proposed measures to reduce or control light and glare impacts, if any:
None.

12. Recreation [help]

a. What designated and informal recreational opportunities are in the immediate vicinity?

Site is across 164th from Crossroads Park and Community Center.

b. Would the proposed project displace any existing recreational uses? If so, describe.

No. Sidewalks on west side of 164th provide pedestrian access to Park facilities.

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

Not applicable.

13. Historic and cultural preservation [help]

a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers ? If so, specifically describe.

DW

No.

b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.

No known evidence at the site. Site has previously been developed.

c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.

WISAARD predictive model has been consulted. Cultural resource review initiated with Washington State Deperatment of Ecology.

d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required.

Project will comply with WA governor's executive order 05-05, and an Inadvertent Discovery Plan will be provided to all contractors working on site.

14. Transportation [help]

a. Identify public streets and highways serving the site or affected geographic area and describe proposed access to the existing street system. Show on site plans, if any.

Site is in ROW parallel to 164th Ave NE. Partial lane closure may be used during construction. Completed project will not affect access to existing street system.

b. Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the approximate distance to the nearest transit stop?

Bus stops are located to the north and south of the site along 164th, and on Northup Way and NE 8th.

c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate?

None.

d. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle or state transportation facilities, not including driveways? If so, generally describe (indicate whether public or private).

Proposal will improve existing public pedestrian infrastructure along 164th.

e. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

No.

f. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and nonpassenger vehicles). What data or transportation models were used to make these estimates?

DW

Not applicable.

g. Will the proposal interfere with, affect or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe.

No.

h. Proposed measures to reduce or control transportation impacts, if any:

Traffic control supervisor will develop a traffic control plan to minimize transportation impact during construction.

15. Public Services [help]

a. Would the project result in an increased need for public services (for example: fire protection, police protection, public transit, health care, schools, other)? If so, generally describe.

No.

b. Proposed measures to reduce or control direct impacts on public services, if any.

No.

16. Utilities [help]

a. Circle utilities currently available at the site:
electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other _____

Conveyance ditch connected to storm sewer. Streetscape on west side of 164th has water and electric utility connections for landscape irrigation.

c. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

Completed proposal will feature improved connection to storm sewer system. Water and electric service will be needed to provide landscape irrigation, and may be connected to existing service points on west side of 164th.

C. Signature [HELP]

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature: _____

Name of signee __Kat Phillips_____

Position and Agency/Organization _Streetscapes Specialist, City of Bellevue

Date Submitted: 11/19/21

DW

D. Supplemental sheet for nonproject actions [HELP]

(**IT IS NOT NECESSARY** to use this sheet for project actions)

Because these questions are very general, it may be helpful to read them in conjunction with the list of the elements of the environment.

When answering these questions, be aware of the extent the proposal, or the types of activities likely to result from the proposal, would affect the item at a greater intensity or at a faster rate than if the proposal were not implemented. Respond briefly and in general terms.

1. How would the proposal be likely to increase discharge to water; emissions to air; production, storage, or release of toxic or hazardous substances; or production of noise?

Proposed measures to avoid or reduce such increases are:

2. How would the proposal be likely to affect plants, animals, fish, or marine life?

Proposed measures to protect or conserve plants, animals, fish, or marine life are:

3. How would the proposal be likely to deplete energy or natural resources?

Proposed measures to protect or conserve energy and natural resources are:

4. How would the proposal be likely to use or affect environmentally sensitive areas or areas designated (or eligible or under study) for governmental protection; such as parks, wilderness, wild and scenic rivers, threatened or endangered species habitat, historic or cultural sites, wetlands, floodplains, or prime farmlands?

Proposed measures to protect such resources or to avoid or reduce impacts are:

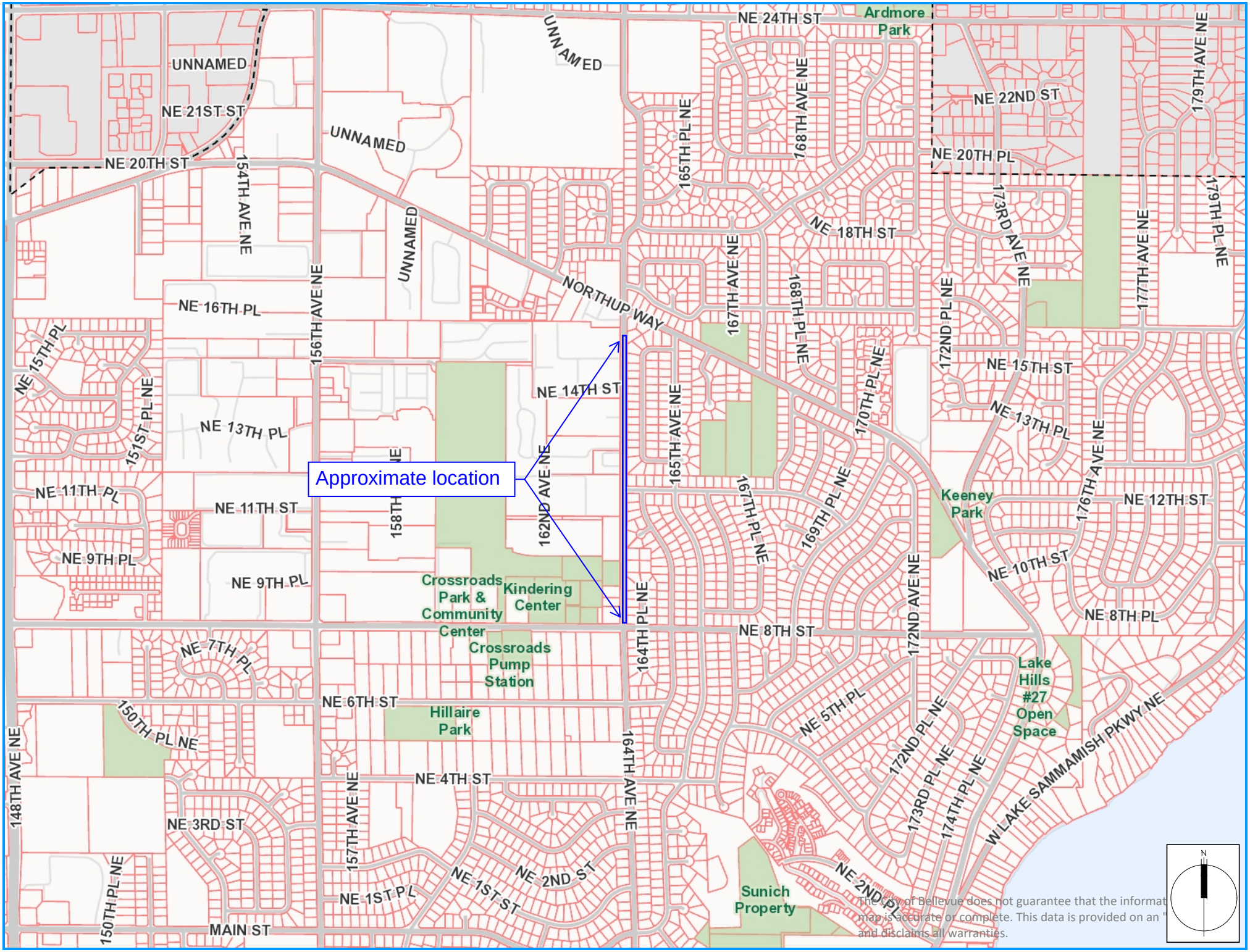
5. How would the proposal be likely to affect land and shoreline use, including whether it would allow or encourage land or shoreline uses incompatible with existing plans?

Proposed measures to avoid or reduce shoreline and land use impacts are:

6. How would the proposal be likely to increase demands on transportation or public services and utilities?

Proposed measures to reduce or respond to such demand(s) are:

7. Identify, if possible, whether the proposal may conflict with local, state, or federal laws or requirements for the protection of the environment.



CITY OF BELLEVUE
PARKS & COMMUNITY SERVICES

164TH AVENUE NE
NE 8TH ST TO NORTHUP WAY LID RETROFIT

90 % SUBMITTAL
JULY 2021

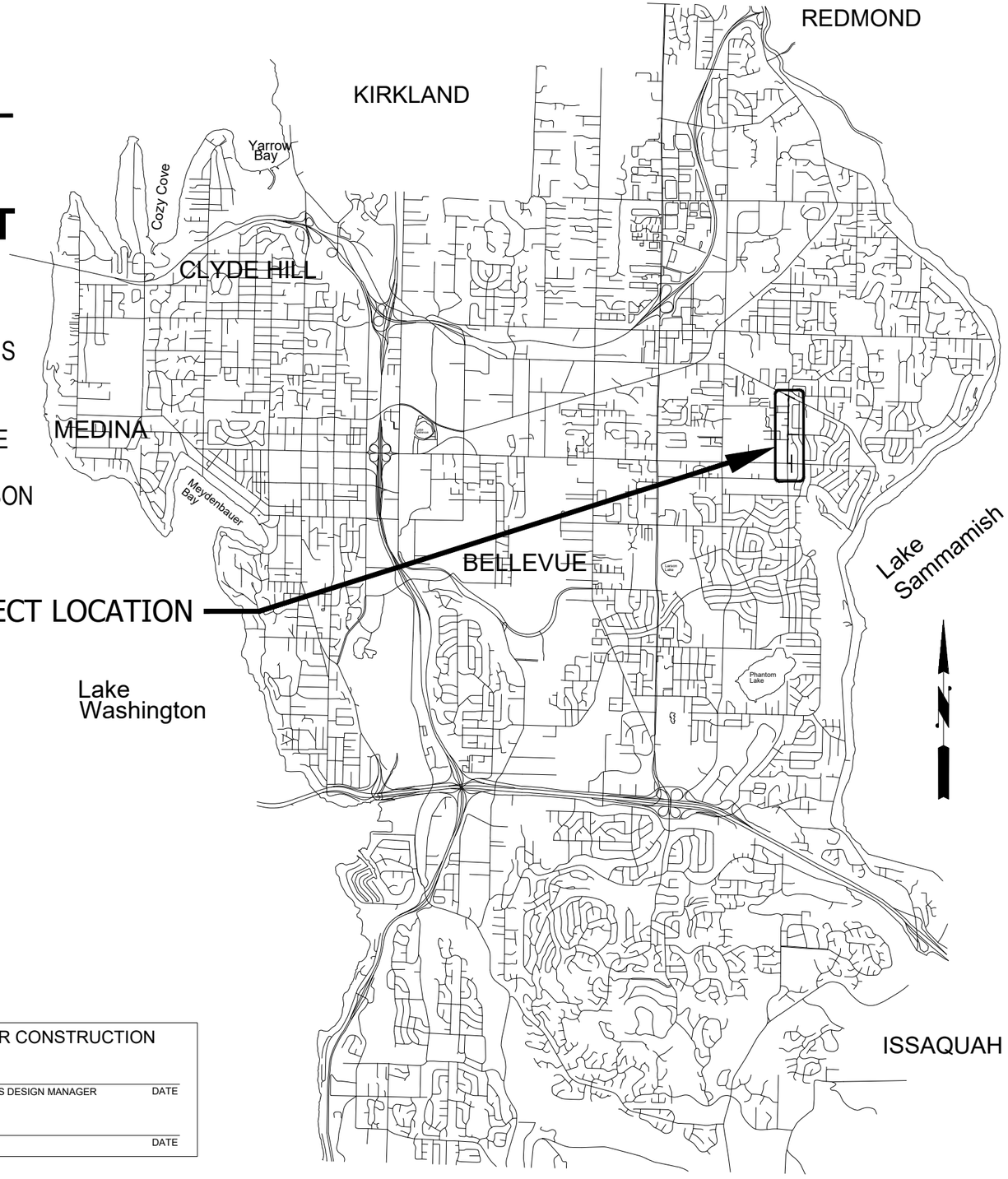
CITY MANAGER
BRAD MIYAKE

MAYOR
LYNNE ROBINSON

PARKS & COMMUNITY SERVICES DIRECTOR
MICHAEL SHIOSAKI

DEPUTY MAYOR
JARED NIEUWENHUIS

CITY COUNCIL
JEREMY BARKSDALE
CONRAD LEE
JENNIFER ROBERTSON
JOHN STOKES
JANICE ZAHN



SCHEDULE OF DRAWINGS

REF. NO.	SHEET	DRAWINGS
-	1	COVER SHEET
GN001	2	LEGEND AND ABBREVIATIONS
SC001	3	SURVEY CONTROL AND SHEET INDEX
SP101 - SP104	4-7	SITE PREPARATION AND TESC PLANS
CIV101 - CIV102	8-9	CIVIL STORMWATER DETAILS
CIV103 - CIV106	10-13	CIVIL STORMWATER PLANS
IRR101	14	IRRIGATION SCHEDULE AND DETAILS
IRR102 - IRR105	15-18	IRRIGATION PLANS
LS101 - LS103	19-20	LANDSCAPE SCHEDULE AND DETAILS
LS104 - LS107	21-24	LANDSCAPE PLANS

THIS PROJECT FUNDED IN PART BY THE WASHINGTON STATE DEPARTMENT OF ECOLOGY STORMWATER GRANT PROGRAM, AGREEMENT NO. WQCSWPC-2016-BELLEV-00064

BID NUMBER XXXXX

APPROVED FOR CONSTRUCTION

PARKS & COMMUNITY SERVICES DESIGN MANAGER DATE

PROJECT MANAGER DATE

SURVEY (BASEMAP) NOTES

1) PURPOSE OF THIS SURVEY: THIS SURVEY WAS PERFORMED DURING SEPTEMBER, 2020 IN SUPPORT OF A LANDSCAPING AND LOW IMPACT DEVELOPMENT FACILITIES PROJECT AND IS INTENDED TO BE USED FOR THIS PURPOSE.
2)
3) METHODOLOGY: FIELD MEASUREMENTS FOR THIS SURVEY WERE PERFORMED USING A LEICA TS16 TOTAL STATION. THIS SURVEY COMPLIES WITH THE "MINIMUM LINEAR CLOSURE" PER WAC 332-130-090.

4) HORIZONTAL DATUM: WASHINGTON STATE COORDINATE SYSTEM, NORTH ZONE, NAD83 (2011).

5) VERTICAL DATUM: NAVD88

6) RIGHT OF WAY LINES SHOWN HEREON ARE BASED ON RECORD PLATS, COUNTY ASSESSOR MAPS, AND CITY OF BELLEVUE RIGHT OF WAY PLANS DATED 8/12/2014, SURVEY PROJECT #11086.

   PROPERTY LINES SHOWN HEREON ARE BASED ENTIRELY UPON CITY OF BELLEVUE GIS DATA AND ARE SHOWN FOR GRAPHIC PURPOSES ONLY.

7) EASEMENTS: THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT.SHOWN HEREON ARE BASED ON PLAT AND OR RECORD INFORMATION. NO TITLE REPORT HAS BEEN PROVIDED.

8) CONTOUR INTERVAL: 1 F00T

9) SOURCE OF CONTOUR LINES SHOWN HEREON WERE DERIVED FROM DIRECT FIELD OBSERVATIONS, AND CONFORM TO NATIONAL MAP ACCURACY STANDARDS, (ONE-HALF THE CONTOUR INTERVAL OR 1/2 F00T).

10) STORM AND SANITARY SEWER LINES SHOWN HEREON ARE BASED ON DIRECT FIELD OBSERVATIONS UNLESS OTHERWISE NOTED.

11) UNDERGROUND UTILITY LINES DEPICTING POWER, COMMUNICATIONS AND FUEL ARE SHOWN BASED ON FIELD LOCATED PAINT MARKS AS PLACED ON THE GROUND BY A UTILITY LOCATE SERVICE TOGETHER WITH FIELD LOCATED SURFACE FACILITIES, UTILITY AS-BUILTS AND CITY OF BELLEVUE GIS DATA.

11)a. UNDERGROUND WATER LINES SHOWN HEREON ARE BASED UPON FIELD LOCATED SURFACE FACILITIES AND CITY OF BELLEVUE GIS DATA.

GENERAL STANDARD NOTES

1. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN HEREON HAVE BEEN ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD THEREFORE BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN, AND TO FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN HERE ON WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN. IMMEDIATELY NOTIFY THE RESPONSIBLE PROFESSIONAL ENGINEER IF A CONFLICT EXISTS.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT NO CONFLICTS EXIST BETWEEN STORM DRAINAGE FACILITIES AND PROPOSED OR EXISTING UTILITIES PRIOR TO CONSTRUCTION.
3. CALL UTILITIES UNDERGROUND LOCATION CENTER AT 1-800-424-5555 48 HOURS PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR SHALL MAINTAIN 10 FOOT MINIMUM TRAVEL LANES DURING CONSTRUCTION EXCEPT DURING FINAL PAVEMENT RESTORATION.
5. DRIVEWAY ACCESS MUST BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE AGREED TO BY THE CITY OF BELLEVUE
6. ALL WORK SHALL CONFORM TO THE 2021 EDITION OF THE CITY OF BELLEVUE UTILITIES DEPARTMENT ENGINEERING STANDARDS.
7. THE CONTRACTOR SHALL USE A VACUUM STREET SWEEPER TO REMOVE DUST AND DEBRIS FROM PAVEMENT AREAS.
8. WHEN WORK IS TO OCCUR IN EASEMENTS, THE CONTRACTOR SHALL NOTIFY THE EASEMENT GRANTOR AND CITY'S INSPECTOR IN WRITING A MINIMUM OF 48 HOURS IN ADVANCE OF BEGINNING WORK (NOT INCLUDING WEEKENDS OR HOLIDAYS).
9. INSTALL FLOW DIVERSION MEASURES OUTSIDE OF THE CRITICAL ROOT ZONE OF TREES TO BE PROTECTED. AT NO TIME SHALL CONSTRUCTION STORMWATER BE DIRECTED TOWARDS TREES TO BE PROTECTED. CONSTRUCTION STORMWATER SHALL NOT POND WITHIN A TREE'S CRITICAL ROOT ZONE.
10. ALL TRENCHES SHALL BE BACKFILLED. COMPACTED, AND PAVEMENT IN PLACE IN PAVED AREAS, PRIOR TO TESTING STORM PIPES FOR ACCEPTANCE.

TRAFFIC CONTROL NOTES

1. ALTERNATING TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE APPROVED BY THE CITY.
2. THE HOURS FOR CONSTRUCTION ACTIVITY, LANE CLOSURES, OR ACTIVITIES THAT IMPEDE OR MAY POTENTIALLY IMPEDE TRAFFIC SHALL BE ESTABLISHED THROUGH THE APPROVAL PROCESS FOR EACH INDIVIDUAL TEMPORARY TRAFFIC CONTROL PLAN. FOR EACH SPECIFIC ACTIVITY. THE WORK HOURS SHALL BE AS STATED ON THE TEMPORARY TRAFFIC CONTROL PLAN OR SHALL BE COMMUNICATED BY THE INSPECTOR ASSIGNED TO THE PROJECT. IT IS ANTICIPATED WORK HOURS FOR CONSTRUCTION ACTIVITIES THAT DO NOT IMPEDE TRAFFIC SHALL BE MONDAY THROUGH FRIDAY 9:00 AM TO 3:30 PM AND SATURDAY 9 AM TO 6 PM.
3. PEDESTRIAN ACCESS SHALL BE MAINTAINED AT ALL TIMES.
4. PEDESTRIAN ACCESS SHALL BE NOT BE IMPEDED. CLOSED TRENCHES, TEMPORARY PAVING SURFACES AND PEDESTRIAN ROUTES SHALL HAVE A STABLE, FIRM AND SLIP RESISTANT WALKING SURFACE MADE EVEN WITH THE SURROUNDING SURFACES. COMPACTED GRAVEL IS NOT CONSIDERED AN ACCEPTABLE WALKING SURFACE.
5. TRAFFIC CONTROL PLANS HAVE BEEN PROVIDED FOR USE ON THIS PROJECT. THE CONTRACTOR SHALL SUBMIT PROJECT SPECIFIC TRAFFIC CONTROL PLANS FOR OPERATIONS THAT DIFFER FROM THE PLANS PROVIDED FOR APPROVAL BY THE CITY AT LEAST 14 DAYS PRIOR TO START OF CONSTRUCTION..

EROSION CONTROL STANDARD NOTES

PROVIDE AND MAINTAIN TEMPORARY SEDIMENTATION COLLECTION FACILITIES TO ENSURE THAT SEDIMENT OR OTHER HAZARDOUS MATERIALS DO NOT ENTER THE STORM DRAINAGE SYSTEM IN ACCORDANCE WITH THE SITES APPROVED CSWPPP.
RESTORATION NOTES:

RESTORATION STANDARD NOTES

1. SURFACE RESTORATION OF EXISTING ASPHALT PAVEMENT SHALL BE AS REQUIRED BY THE RIGHT-OF-WAY USE PERMIT.
2. THE CONTRACTOR SHALL RESTORE THE RIGHT-OF-WAY AND EXISTING PUBLIC STORM DRAINAGE EASEMENT(S) AFTER CONSTRUCTION TO A CONDITION EQUAL OR BETTER THAN CONDITION PRIOR TO ENTRY.

PROTECTION OF THE ENVIRONMENT

NO CONSTRUCTION RELATED ACTIVITY SHALL CONTRIBUTE TO THE DEGRADATION OF THE ENVIRONMENT, ALLOW MATERIAL TO ENTER SURFACE OR GROUND WATERS, OR ALLOW PARTICULATE EMISSIONS TO THE ATMOSPHERE, WHICH EXCEED STATE OR FEDERAL STANDARDS. ANY ACTIONS THAT POTENTIALLY ALLOW A DISCHARGE TO STATE WATERS MUST HAVE PRIOR APPROVAL OF THE WASHINGTON STATE DEPARTMENT OF ECOLOGY.

SURVEY (BASEMAP) LEGEND

- RIGHT OF WAY CENTERLINE EXISTING
- QUARTER SECTION LINE
- SECTION LINE
- PROPERTY LINE (FROM GIS)
- RIGHT OF WAY EXISTING
- RIGHT OF WAY (FROM GIS)
- TRAFFIC STRIPING
- FENCE LINE
- FLOW OF DITCH
- TOP OF DITCH
- UNDERGROUND COMMUNICATION LINE
- FIBER OPTIC LINE
- TRAFFIC DETECTION LOOP
- UNDERGROUND GAS LINE
- UNDERGROUND POWER LINE
- SANITARY SEWER PIPE
- SANITARY SEWER PIPE (FROM GIS)
- STORM DRAIN PIPE
- STORM DRAIN PIPE (FROM GIS)
- UNDERGROUND WATER PIPE (FROM GIS)
- OVERHEAD UTILITY LINE
- ABANDONED UTILITY

- QUARTER CORNER
- SECTION CORNER
- MONUMENT IN CASE
- MONUMENT (SURFACE)
- MAGNETIC NAIL WITH COB WASHER
- CONIFEROUS TREE
- DECIDUOUS TREE
- SIGN
- POST OR BOLLARD
- FIRE HYDRANT
- WATER METER
- WATER VALVE
- SEWER MANHOLE
- STORM CATCH BASIN
- 100.0 STORM CULVERT (INVERT ELEVATION)
- POWER JUNCTION BOX
- UTILITY POLE
- GUY POLE
- GUY ANCHOR
- UTILITY POLE W/ LIGHT
- GAS VALVE
- COMMUNICATIONS MANHOLE
- COMMUNICATIONS VAULT

ASPH	ASPHALT
AW	ASPHALT SIDEWALK
CC	CONCRETE CURB
C&G	CURB AND GUTTER
CLF	CHAINLINK FENCE
CMP	CORRUGATED METAL PIPE
COB	CITY OF BELLEVUE
CONC	CONCRETE
CW	CONCRETE SIDEWALK
DW	DRIVEWAY
PA	PLANTED AREA
PVC	POLYVINYL CHLORIDE
WDF	WOOD FENCE

NOTE: SEE PLAN SHEETS FOR LEGEND OF PROPOSED FEATURES.

NO.	DATE	BY	APPR.	REVISIONS

BC 01/2021 DESIGNED BY DATE
BC 01/2021 DRAWN BY DATE
LG 01/2021 CHECKED BY DATE

City of Bellevue
Parks & Community Services

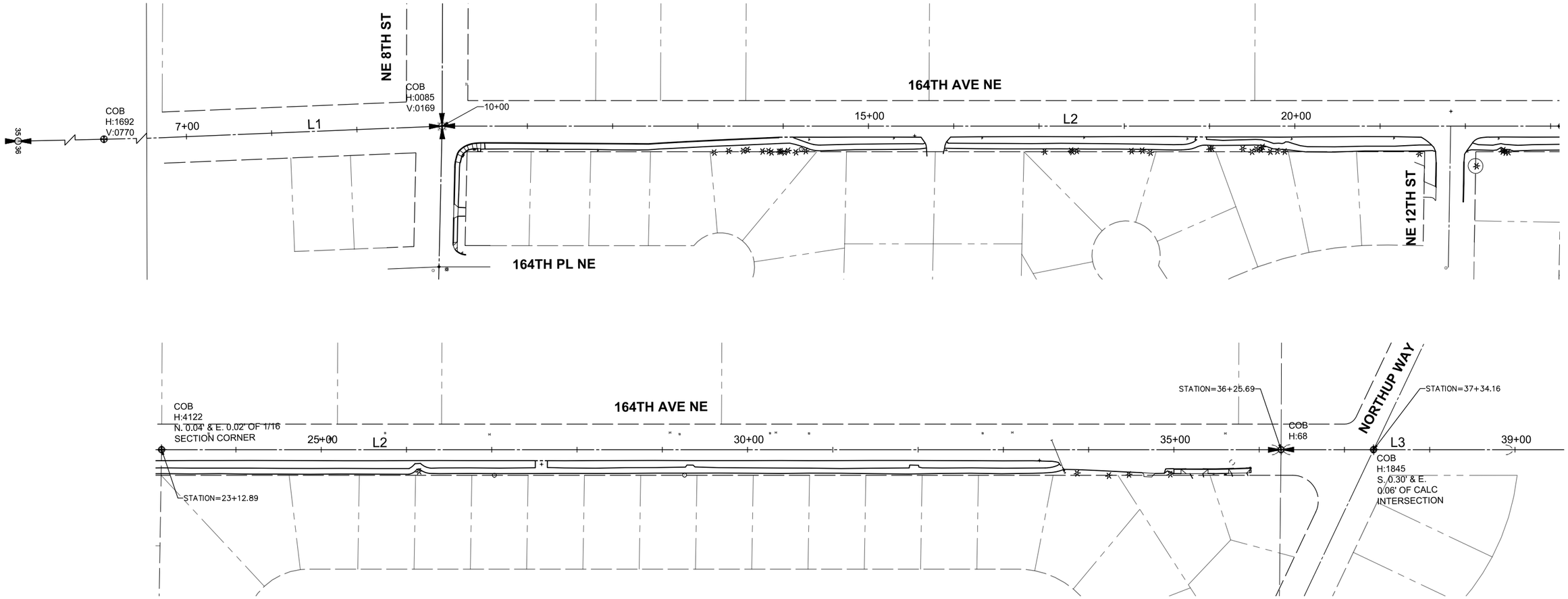
90% REVIEW SUBMITTAL

KPG Interdisciplinary Design
SEATTLE 3131 Elliott Ave Suite 400 WA 98121 (206) 286 1640
Tacoma Wenatchee Bellevue www.kpg.com

164TH AVENUE NE
NE 8TH ST TO NORTHUP WAY LID RETROFIT

GENERAL
LEGEND AND ABBREVIATIONS

GN001 SHT 2 OF 24



164TH AVE NE				
LINE	NORTHING	EASTING	DISTANCE	BEARING
L1	227407.2751	1322681.4527	300.00	N1° 17' 55.51"W
L2	227707.1980	1322674.6530	2625.69	N1° 03' 38.14"E
L3	230332.4350	1322723.2540	274.31	N1° 03' 27.48"E

PLAN

SCALE IN FEET

0 30 60 120 180

SURVEY CONTROL:

COB H:0085 V:0169
PUNCH MARK IN 2" BRASS PLUG IN CONC MONUMENT IN CASING DOWN 0.1'.
NORTHING: 227,707.20'
EASTING: 1,322,674.65'
ELEVATION: 436.70'

COB H:1692 V:0770
PUNCH MARK IN 1/2" BRASS PLUG IN 3"X3" CONC MONUMENT IN CASING DOWN 1.4'.
NORTHING: 227,050.63'
EASTING: 1,322,689.54'
ELEVATION: 439.62'

COB H:1844 V:0797
COB BRASS CAP STAMPED, "H1844" & "V797" SET IT CONC SIDEWALK.
NORTHING: 230,240.27'
EASTING: 1,323,166.83'
ELEVATION: 430.74'

COB H:1845
1/8" BRASS ROD IN 2-1/2" IRON PIPE IN CONC MONUMENT IN CASING DOWN 0.6'.
NORTHING: 230,440.89'
EASTING: 1,322,725.31'

SURVEY CONTROL:

#6500
SET MAGNETIC NAIL WITH COB WASHER
NORTHING: 228,261.15'
EASTING: 1,322,696.34'
ELEVATION: 434.41'

#6501
SET MAGNETIC NAIL WITH COB WASHER
NORTHING: 228,890.46'
EASTING: 1,322,679.26'
ELEVATION: 433.77'

#6502
SET MAGNETIC NAIL WITH COB WASHER
NORTHING: 229,465.03'
EASTING: 1,322,724.27'
ELEVATION: 437.65'

#6503
SET MAGNETIC NAIL WITH COB WASHER
NORTHING: 230,048.87'
EASTING: 1,322,730.47'
ELEVATION: 439.00'

NO.	DATE	BY	APPR.	REVISIONS

BC 01/2021
DESIGNED BY DATE
BC 01/2021
DRAWN BY DATE
LG 01/2021
CHECKED BY DATE

City of Bellevue
Parks & Community Services

90% REVIEW SUBMITTAL

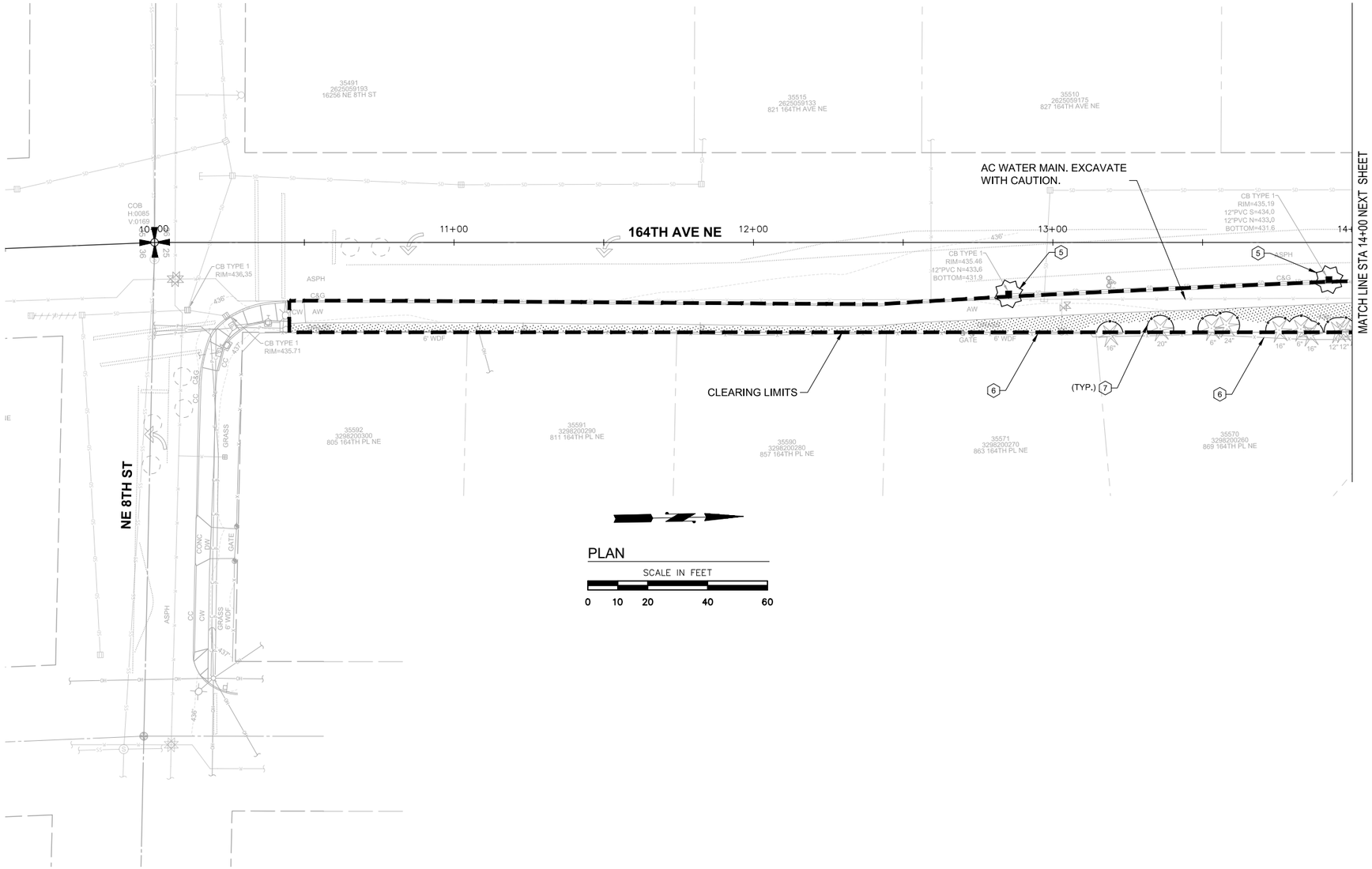
KPG
Interdisciplinary Design
SEATTLE
3131 Elliott Ave
Suite 400 WA 98121
(206) 286 1640
Tacoma
Wenatchee
Bellevue
www.kpg.com

164TH AVENUE NE
NE 8TH ST TO NORTHUP WAY LID RETROFIT

SURVEY CONTROL
SURVEY CONTROL AND SHEET INDEX

SC101

SHT 3 OF 24



PLAN

SCALE IN FEET

0 10 20 40 60

GENERAL NOTES

1. ALL TEMPORARY EROSION AND SEDIMENT CONTROL BMPS SHALL CONFORM TO CITY OF BELLEVUE CLEARING AND GRADING DEVELOPMENT STANDARDS, CURRENT EDITION.
2. CONTRACTOR SHALL PROTECT ALL PLANT MATERIAL OUTSIDE OF CLEARING LIMITS.
3. CONTRACTOR SHALL PROTECT ALL ABOVE AND BELOW GROUND UTILITIES AND IMPROVEMENTS THAT ARE TO REMAIN.
4. THE LOCATIONS OF EXISTING UNDERGROUND UTILITY SYSTEMS, AS SHOWN HEREON, ARE TAKEN FROM UTILITY LOCATE PAINT MARKS OR AS-BUILT PLANS AND ARE SHOWN IN AN APPROXIMATE WAY ONLY.

   THE CONTRACTOR SHALL CALL THE WASHINGTON UTILITY NOTIFICATION CENTER 48 HOURS PRIOR TO CONSTRUCTION. 1-800-424-5555.
5. CLEAR AND GRUB EXISTING GRASS AND VEGETATION AS REQUIRED FOR PROPOSED IMPROVEMENTS AS SHOWN IN PLANS. STAKED CLEARING LIMITS AND TREE PROTECTION SHALL BE APPROVED BY THE CITY PRIOR TO ANY WORK.
6. SAVE AND PROTECT ALL EXISTING TREES WITHIN PROJECT LIMITS UNLESS OTHERWISE SHOWN ON PLANS. SEE SHEET LS001 FOR CALL OUTS.
7. **PROTECTION OF THE ENVIRONMENT** NO CONSTRUCTION RELATED ACTIVITY SHALL CONTRIBUTE TO THE DEGRADATION OF THE ENVIRONMENT, ALLOW MATERIAL TO ENTER SURFACE OR GROUND WATERS, OR ALLOW PARTICULATE EMISSIONS TO THE ATMOSPHERE, WHICH EXCEED STATE OR FEDERAL STANDARDS. ANY ACTIONS THAT POTENTIALLY ALLOW A DISCHARGE TO STATE WATERS MUST HAVE PRIOR APPROVAL OF THE WASHINGTON STATE DEPARTMENT OF ECOLOGY.

CONSTRUCTION NOTES

(2) REMOVE EXISTING ASPHALT

(5) INSTALL INLET PROTECTION PER COB STANDARD DETAIL NO. C220

(6) PROTECT EXISTING FENCE

(7) PROTECT EXISTING TREES. SEE LANDSCAPE DETAIL SHEET 19 - 20

LEGEND

- CLEAR AND GRUB
- REMOVE HMA OR CONCRETE PAVEMENT
- SAW CUT PAVEMENT (FULL DEPTH)
- PIPE REMOVAL
- CURB AND GUTTER REMOVAL
- INLET PROTECTION PER BMP C220
- SILT FENCE PER BMP C233
- HIGH VISIBILITY FENCE PER BMP C103
- CLEARING LIMITS

NO.	DATE	BY	APPR.	REVISIONS

KP 01/2021 DESIGNED BY DATE
BC 01/2021 DRAWN BY DATE
RE 01/2021 CHECKED BY DATE

City of Bellevue
Parks & Community Services

90% REVIEW SUBMITTAL

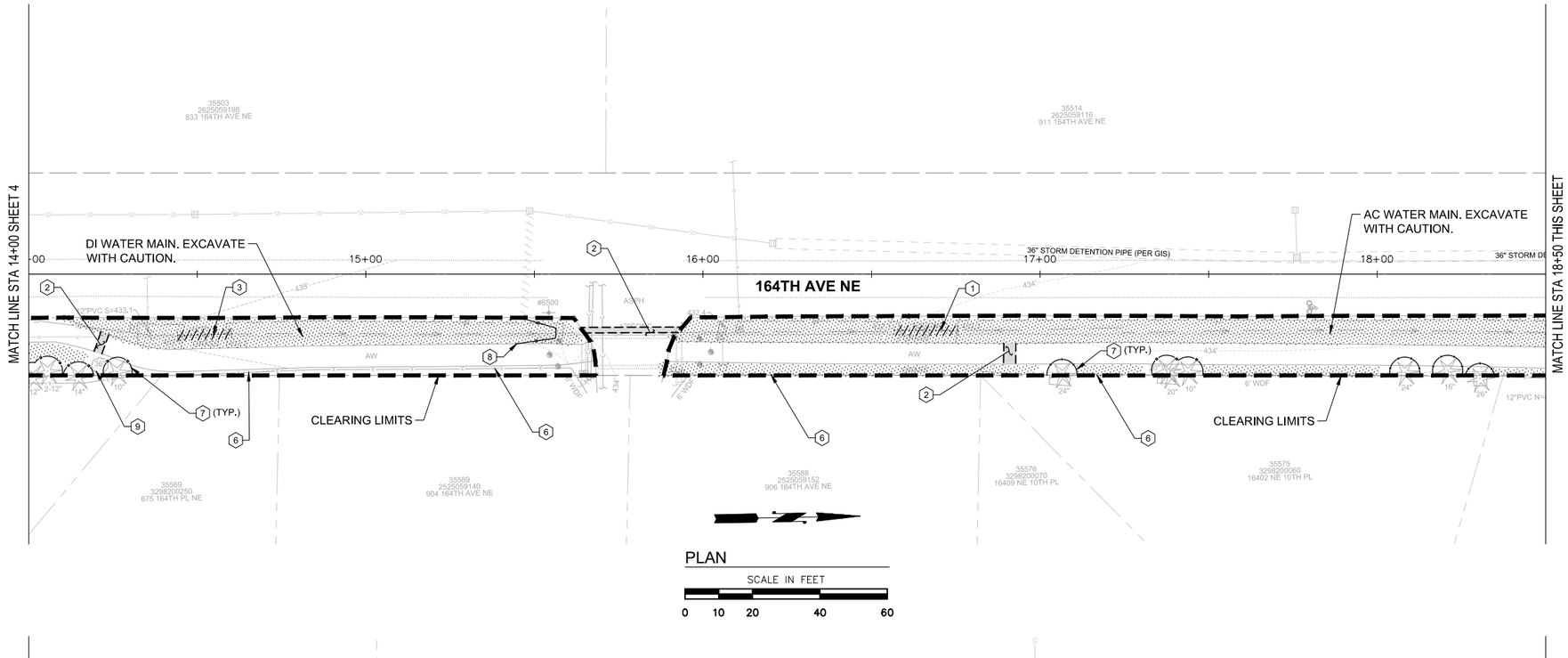
KPG Interdisciplinary Design
SEATTLE 3131 Elliott Ave Suite 400 WA 98121 (206) 286 1640
Tacoma Wenatchee Bellevue www.kpg.com

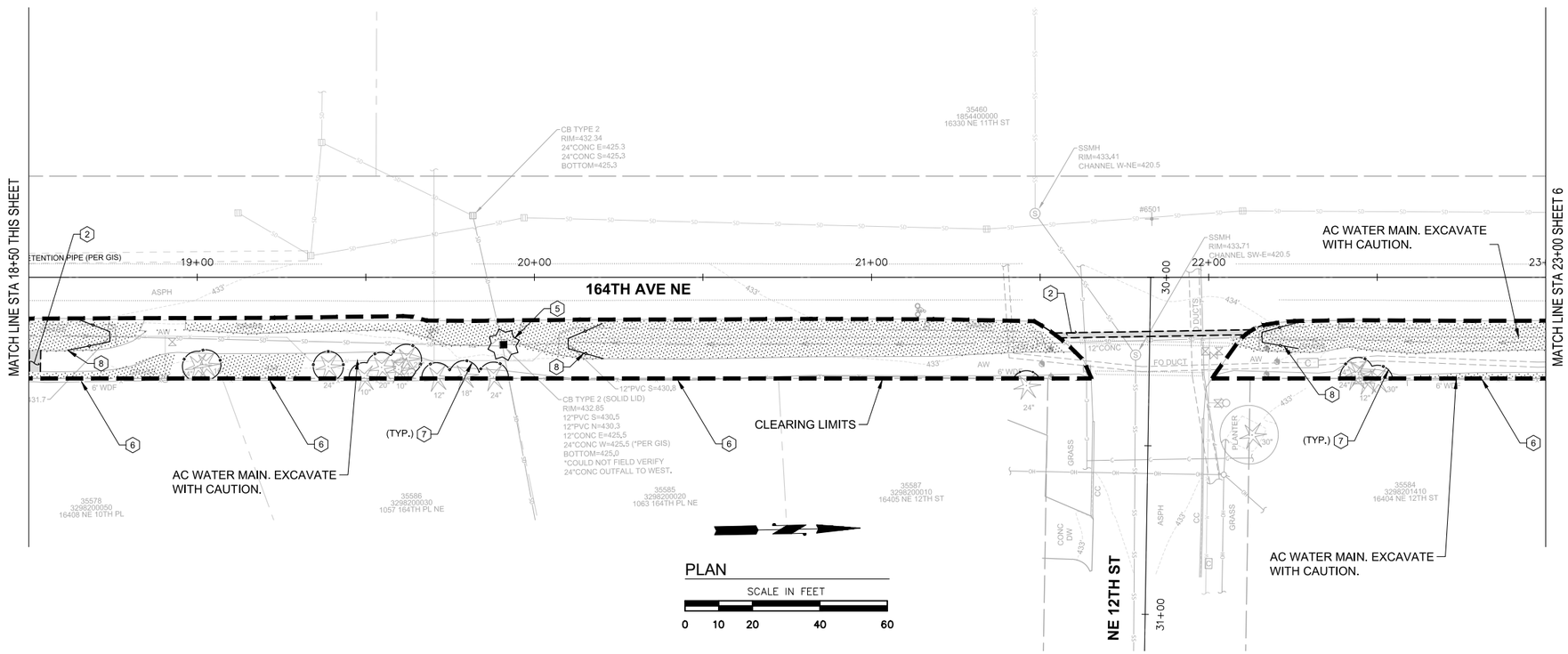
164TH AVENUE NE
NE 8TH ST TO NORTHUP WAY LID RETROFIT

SITE PREPARATION & TESC PLAN
STA 10+00 TO STA 14+00

SP101

SHT 4 OF 24





GENERAL NOTES

1. ALL TEMPORARY EROSION AND SEDIMENT CONTROL BMPS SHALL CONFORM TO CITY OF BELLEVUE CLEARING AND GRADING DEVELOPMENT STANDARDS, CURRENT EDITION.
2. CONTRACTOR SHALL PROTECT ALL PLANT MATERIAL OUTSIDE OF CLEARING LIMITS.
3. CONTRACTOR SHALL PROTECT ALL ABOVE AND BELOW GROUND UTILITIES AND IMPROVEMENTS THAT ARE TO REMAIN.
4. THE LOCATIONS OF EXISTING UNDERGROUND UTILITY SYSTEMS, AS SHOWN HEREON, ARE TAKEN FROM UTILITY LOCATE PAINT MARKS OR AS-BUILT PLANS AND ARE SHOWN IN AN APPROXIMATE WAY ONLY.

   THE CONTRACTOR SHALL CALL THE WASHINGTON UTILITY NOTIFICATION CENTER 48 HOURS PRIOR TO CONSTRUCTION. 1-800-424-5555.
5. CLEAR AND GRUB EXISTING GRASS AND VEGETATION AS REQUIRED FOR PROPOSED IMPROVEMENTS AS SHOWN IN PLANS. STAKED CLEARING LIMITS AND TREE PROTECTION SHALL BE APPROVED BY THE CITY PRIOR TO ANY WORK.
6. SAVE AND PROTECT ALL EXISTING TREES WITHIN PROJECT LIMITS UNLESS OTHERWISE SHOWN ON PLANS. SEE SHEET LS001 FOR CALL OUTS.
7. **PROTECTION OF THE ENVIRONMENT** NO CONSTRUCTION RELATED ACTIVITY SHALL CONTRIBUTE TO THE DEGRADATION OF THE ENVIRONMENT, ALLOW MATERIAL TO ENTER SURFACE OR GROUND WATERS, OR ALLOW PARTICULATE EMISSIONS TO THE ATMOSPHERE, WHICH EXCEED STATE OR FEDERAL STANDARDS. ANY ACTIONS THAT POTENTIALLY ALLOW A DISCHARGE TO STATE WATERS MUST HAVE PRIOR APPROVAL OF THE WASHINGTON STATE DEPARTMENT OF ECOLOGY.

CONSTRUCTION NOTES

(1) REMOVE EXISTING STORM DRAIN PIPE

(2) REMOVE EXISTING ASPHALT

(5) INSTALL INLET PROTECTION PER COB STANDARD DETAIL NO. C220

(6) PROTECT EXISTING FENCE

(7) PROTECT EXISTING TREES. SEE LANDSCAPE DETAIL SHEET 19 - 20

(8) INSTALL SILT FENCE FOR SEDIMENT COLLECTION PER BMP C233

(9) REMOVE 36" DECIDUOUS TREE

(10) REMOVE 36" DECIDUOUS TREE

LEGEND

- CLEAR AND GRUB
- REMOVE HMA OR CONCRETE PAVEMENT
- SAW CUT PAVEMENT (FULL DEPTH)
- PIPE REMOVAL
- CURB AND GUTTER REMOVAL
- INLET PROTECTION PER BMP C220
- SILT FENCE PER BMP C233
- HIGH VISIBILITY FENCE PER BMP C103
- CLEARING LIMITS

NO.	DATE	BY	APPR.	REVISIONS

KP	01/2021
DESIGNED BY	DATE
BC	01/2021
DRAWN BY	DATE
RE	01/2021
CHECKED BY	DATE

City of Bellevue
Parks & Community Services

90% REVIEW SUBMITTAL

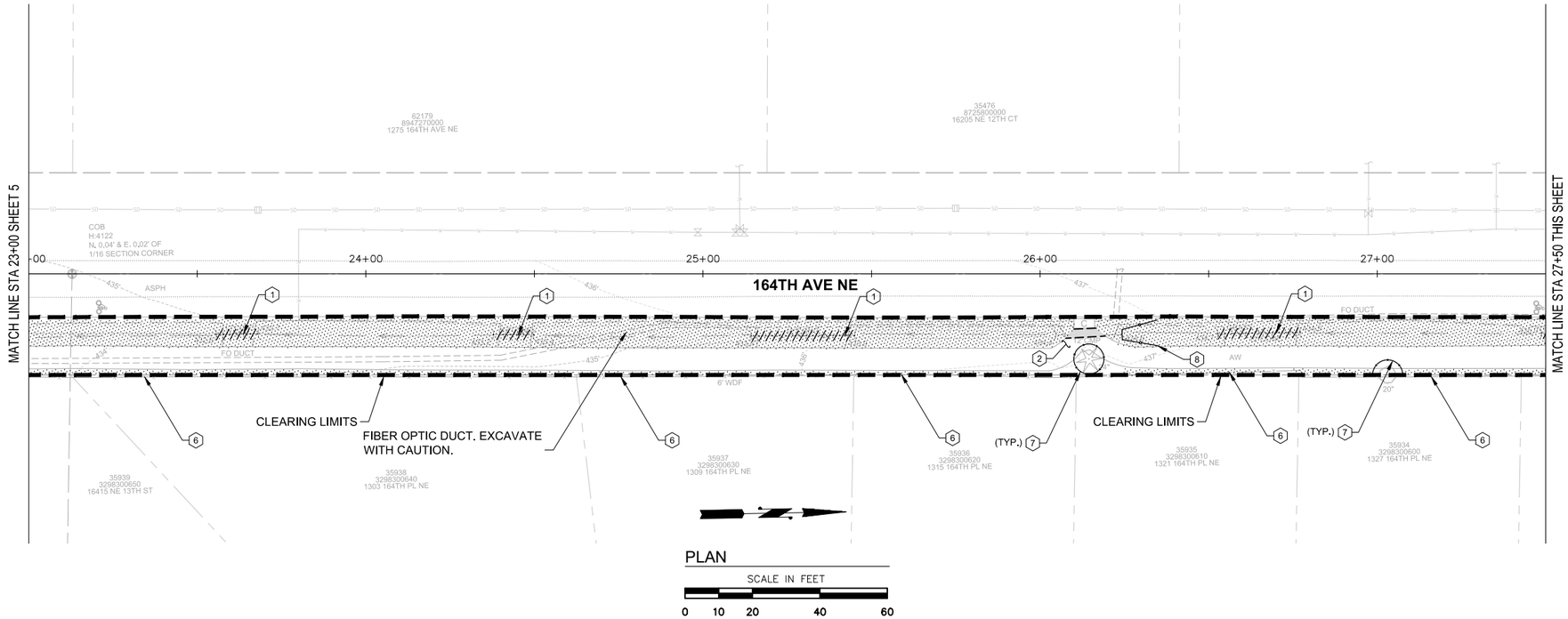
KPG
Interdisciplinary Design
SEATTLE
3131 Elliott Ave
Suite 400 WA 98121
(206) 286 1640
Tacoma
Wenatchee
Bellevue
www.kpg.com

164TH AVENUE NE
NE 8TH ST TO NORTHUP WAY LID RETROFIT

SITE PREPARATION & TESC PLAN STA 14+00 TO STA 23+00

SP102

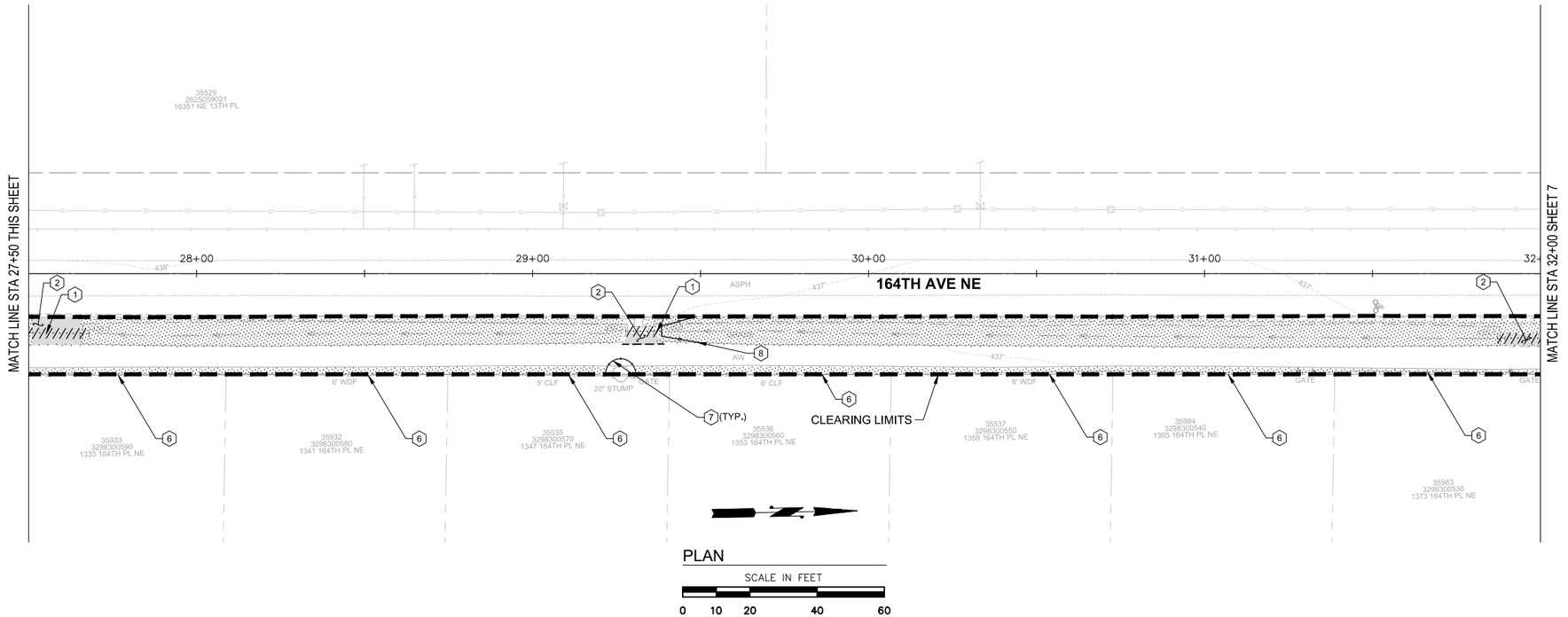
SHT 5 OF 24



PLAN

SCALE IN FEET

0 10 20 40 60



PLAN

SCALE IN FEET

0 10 20 40 60

GENERAL NOTES

1. ALL TEMPORARY EROSION AND SEDIMENT CONTROL BMPS SHALL CONFORM TO CITY OF BELLEVUE CLEARING AND GRADING DEVELOPMENT STANDARDS, CURRENT EDITION.
2. CONTRACTOR SHALL PROTECT ALL PLANT MATERIAL OUTSIDE OF CLEARING LIMITS.
3. CONTRACTOR SHALL PROTECT ALL ABOVE AND BELOW GROUND UTILITIES AND IMPROVEMENTS THAT ARE TO REMAIN.
4. THE LOCATIONS OF EXISTING UNDERGROUND UTILITY SYSTEMS, AS SHOWN HEREON, ARE TAKEN FROM UTILITY LOCATE PAINT MARKS OR AS-BUILT PLANS AND ARE SHOWN IN AN APPROXIMATE WAY ONLY.

   THE CONTRACTOR SHALL CALL THE WASHINGTON UTILITY NOTIFICATION CENTER 48 HOURS PRIOR TO CONSTRUCTION. 1-800-424-5555.
5. CLEAR AND GRUB EXISTING GRASS AND VEGETATION AS REQUIRED FOR PROPOSED IMPROVEMENTS AS SHOWN IN PLANS. STAKED CLEARING LIMITS AND TREE PROTECTION SHALL BE APPROVED BY THE CITY PRIOR TO ANY WORK.
6. SAVE AND PROTECT ALL EXISTING TREES WITHIN PROJECT LIMITS UNLESS OTHERWISE SHOWN ON PLANS. SEE SHEET LS001 FOR CALL OUTS.
7. **PROTECTION OF THE ENVIRONMENT** NO CONSTRUCTION RELATED ACTIVITY SHALL CONTRIBUTE TO THE DEGRADATION OF THE ENVIRONMENT, ALLOW MATERIAL TO ENTER SURFACE OR GROUND WATERS, OR ALLOW PARTICULATE EMISSIONS TO THE ATMOSPHERE, WHICH EXCEED STATE OR FEDERAL STANDARDS. ANY ACTIONS THAT POTENTIALLY ALLOW A DISCHARGE TO STATE WATERS MUST HAVE PRIOR APPROVAL OF THE WASHINGTON STATE DEPARTMENT OF ECOLOGY.

CONSTRUCTION NOTES

1. REMOVE EXISTING STORM DRAIN PIPE
2. REMOVE EXISTING ASPHALT
6. PROTECT EXISTING FENCE
7. PROTECT EXISTING TREES. SEE LANDSCAPE DETAIL SHEET 19 - 20
8. INSTALL SILT FENCE FOR SEDIMENT COLLECTION PER BMP C233

LEGEND

- CLEAR AND GRUB
- REMOVE HMA OR CONCRETE PAVEMENT
- SAW CUT PAVEMENT (FULL DEPTH)
- PIPE REMOVAL
- CURB AND GUTTER REMOVAL
- INLET PROTECTION PER BMP C220
- SILT FENCE PER BMP C233
- HIGH VISIBILITY FENCE PER BMP C103
- CLEARING LIMITS

NO.	DATE	BY	APPR.	REVISIONS

KP	01/2021
DESIGNED BY	DATE
BC	01/2021
DRAWN BY	DATE
RE	01/2021
CHECKED BY	DATE

City of Bellevue
Parks & Community Services

90% REVIEW SUBMITTAL

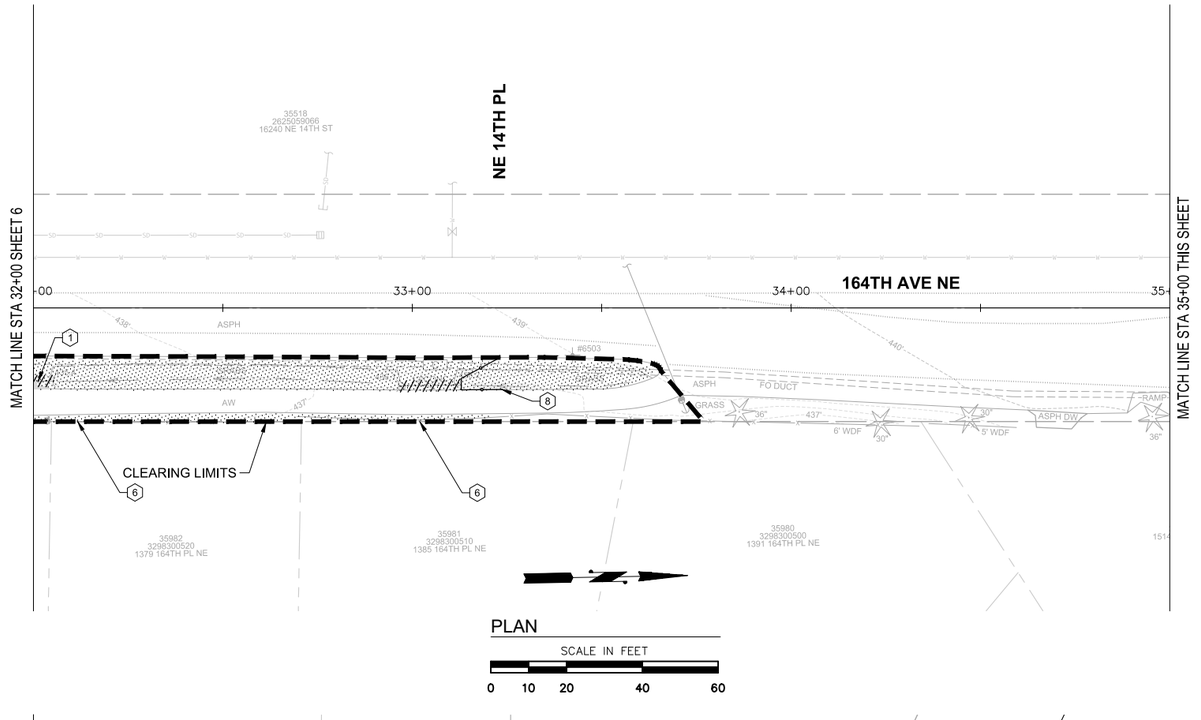
KPG
Interdisciplinary Design
SEATTLE
3131 Elliott Ave
Suite 400 WA 98121
(206) 286 1640
Tacoma
Wenatchee
Bellevue
www.kpg.com

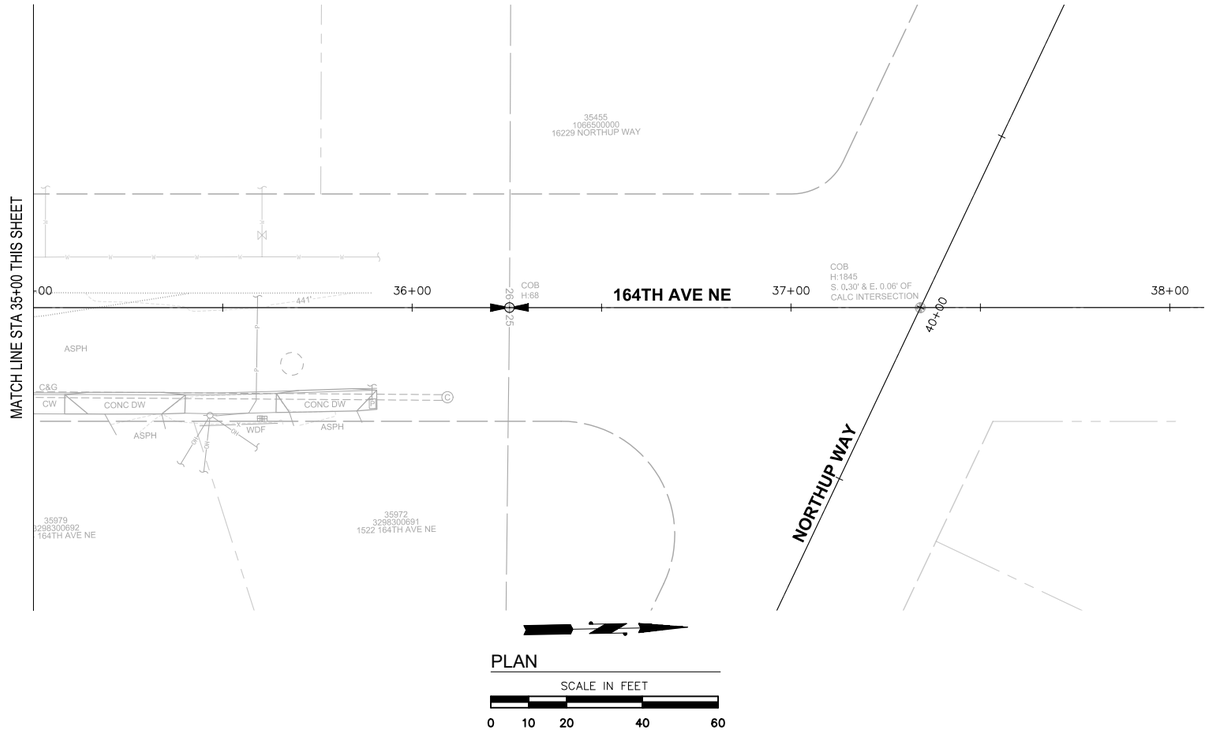
164TH AVENUE NE
NE 8TH ST TO NORTHUP WAY LID RETROFIT

SITE PREPARATION & TESC PLAN
STA 23+00 TO STA 32+00

SP103

SHT 6 OF 24





GENERAL NOTES

1. ALL TEMPORARY EROSION AND SEDIMENT CONTROL BMPS SHALL CONFORM TO CITY OF BELLEVUE CLEARING AND GRADING DEVELOPMENT STANDARDS, CURRENT EDITION.
2. CONTRACTOR SHALL PROTECT ALL PLANT MATERIAL OUTSIDE OF CLEARING LIMITS.
3. CONTRACTOR SHALL PROTECT ALL ABOVE AND BELOW GROUND UTILITIES AND IMPROVEMENTS THAT ARE TO REMAIN.
4. THE LOCATIONS OF EXISTING UNDERGROUND UTILITY SYSTEMS, AS SHOWN HEREON, ARE TAKEN FROM UTILITY LOCATE PAINT MARKS OR AS-BUILT PLANS AND ARE SHOWN IN AN APPROXIMATE WAY ONLY.

   THE CONTRACTOR SHALL CALL THE WASHINGTON UTILITY NOTIFICATION CENTER 48 HOURS PRIOR TO CONSTRUCTION. 1-800-424-5555.
5. CLEAR AND GRUB EXISTING GRASS AND VEGETATION AS REQUIRED FOR PROPOSED IMPROVEMENTS AS SHOWN IN PLANS. STAKED CLEARING LIMITS AND TREE PROTECTION SHALL BE APPROVED BY THE CITY PRIOR TO ANY WORK.
6. SAVE AND PROTECT ALL EXISTING TREES WITHIN PROJECT LIMITS UNLESS OTHERWISE SHOWN ON PLANS. SEE SHEET LS001 FOR CALL OUTS.
7. **PROTECTION OF THE ENVIRONMENT** NO CONSTRUCTION RELATED ACTIVITY SHALL CONTRIBUTE TO THE DEGRADATION OF THE ENVIRONMENT, ALLOW MATERIAL TO ENTER SURFACE OR GROUND WATERS, OR ALLOW PARTICULATE EMISSIONS TO THE ATMOSPHERE, WHICH EXCEED STATE OR FEDERAL STANDARDS. ANY ACTIONS THAT POTENTIALLY ALLOW A DISCHARGE TO STATE WATERS MUST HAVE PRIOR APPROVAL OF THE WASHINGTON STATE DEPARTMENT OF ECOLOGY.

CONSTRUCTION NOTES

(1) REMOVE EXISTING STORM DRAIN PIPE

(6) PROTECT EXISTING FENCE

(8) INSTALL SILT FENCE FOR SEDIMENT COLLECTION PER BMP C233

LEGEND

- CLEAR AND GRUB
- REMOVE HMA OR CONCRETE PAVEMENT
- SAW CUT PAVEMENT (FULL DEPTH)
- PIPE REMOVAL
- CURB AND GUTTER REMOVAL
- INLET PROTECTION PER BMP C220
- SILT FENCE PER BMP C233
- HIGH VISIBILITY FENCE PER BMP C103
- CLEARING LIMITS

NO.	DATE	BY	APPR.	REVISIONS

KP	01/2021
DESIGNED BY	DATE
BC	01/2021
DRAWN BY	DATE
RE	01/2021
CHECKED BY	DATE

City of Bellevue
Parks & Community Services

90% REVIEW SUBMITTAL

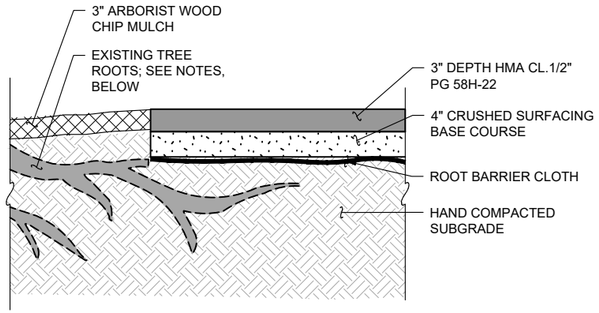
KPG
Interdisciplinary Design
SEATTLE
3131 Elliott Ave
Suite 400 WA 98121
(206) 286 1640
Tacoma
Wenatchee
Bellevue
www.kpg.com

164TH AVENUE NE
NE 8TH ST TO NORTHUP WAY LID RETROFIT

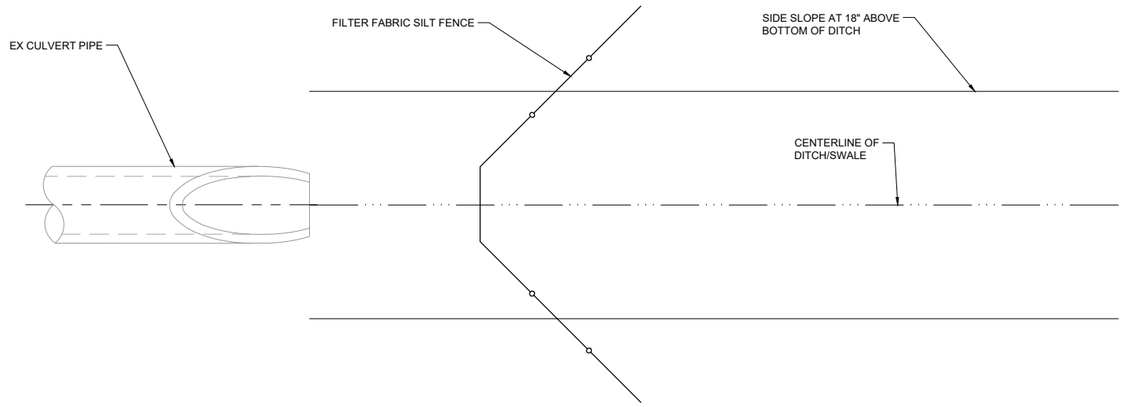
SITE PREPARATION & TESC PLAN
STA 32+00 TO STA 38+00

SP104

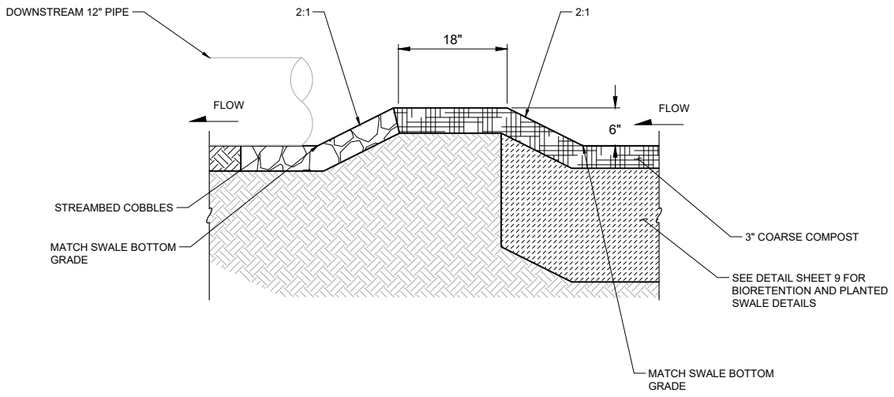
SHT 7 OF 24



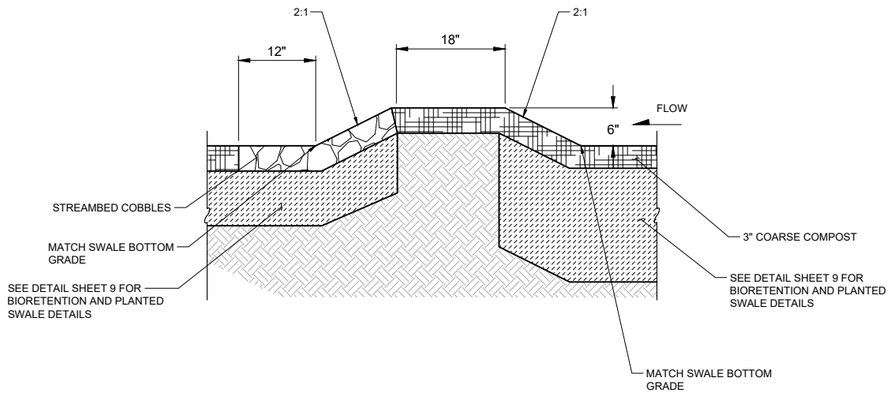
HMA SIDEWALK RESTORATION DETAIL
NTS



TESC INLET PROTECTION
NTS



OVERFLOW CHECK DAM DETAIL
NTS



OVERFLOW BERM FOR BIORETENTION TO SWALE TRANSITION DETAIL
NTS

NO.	DATE	BY	APPR.	REVISIONS

KP 01/2021 DESIGNED BY DATE
BC 01/2021 DRAWN BY DATE
RE 01/2021 CHECKED BY DATE

City of Bellevue
Parks & Community Services

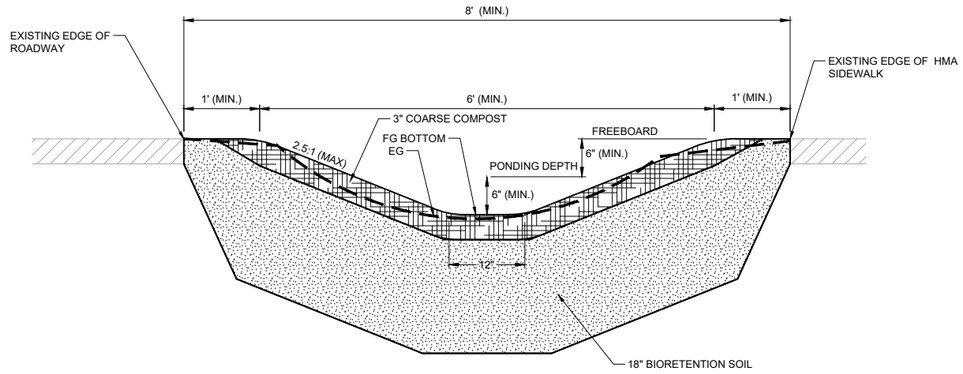
90% REVIEW SUBMITTAL

KPG Interdisciplinary Design
SEATTLE 3131 Elliott Ave Suite 400 WA 98121 (206) 286 1640
Tacoma Wenatchee Bellevue
www.kpg.com

164TH AVENUE NE
NE 8TH ST TO NORTHUP WAY LID RETROFIT

STORMWATER DETAILS

CIV101

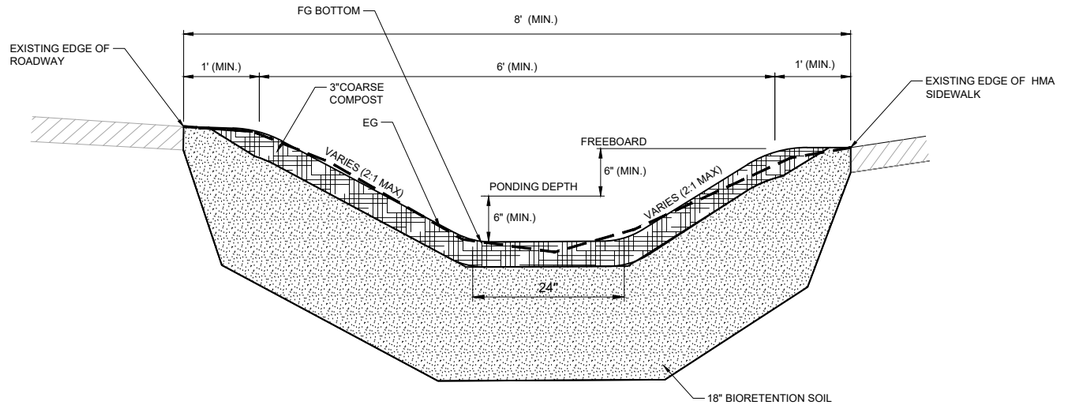


NOTE: SECTIONS PROVIDED ARE TYPICAL GEOMETRIC LAYOUTS FOR BIORETENTION CELL OR VEGETATED SWALE. SEE CITY OF BELLEVUE BIORETENTION DETAIL NO. NDP-2 FOR ADDITIONAL REQUIREMENTS.

STA 26+42 TO 28+85 (243 LF)

TOTAL SECTION LENGTH = 243 LF

BIORETENTION SECTION DETAIL A
NTS

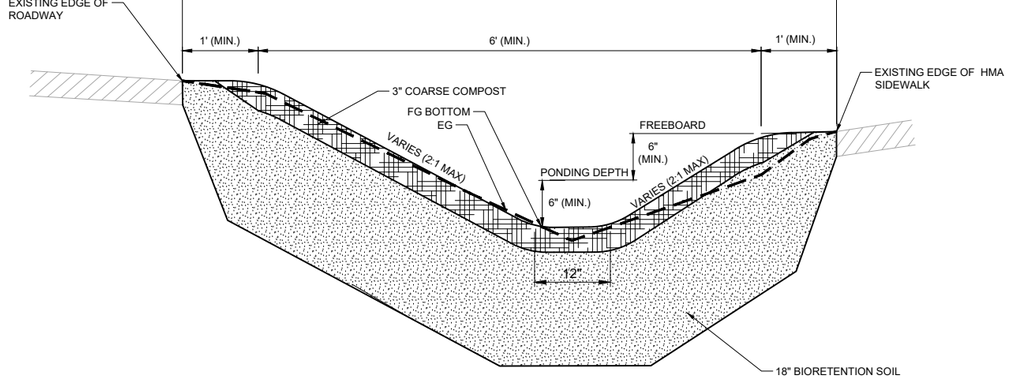


NOTE: SECTIONS PROVIDED ARE TYPICAL GEOMETRIC LAYOUTS FOR BIORETENTION CELL OR VEGETATED SWALE. SEE CITY OF BELLEVUE BIORETENTION DETAIL NO. NDP-2 FOR ADDITIONAL REQUIREMENTS.
SECTION TO BE USED IF SECTION DETAIL A IS INFEASIBLE.

FROM STA 30+41 TO STA 31+01 (60 LF)

TOTAL SECTION LENGTH = 60 LF

BIORETENTION SECTION DETAIL B
NTS

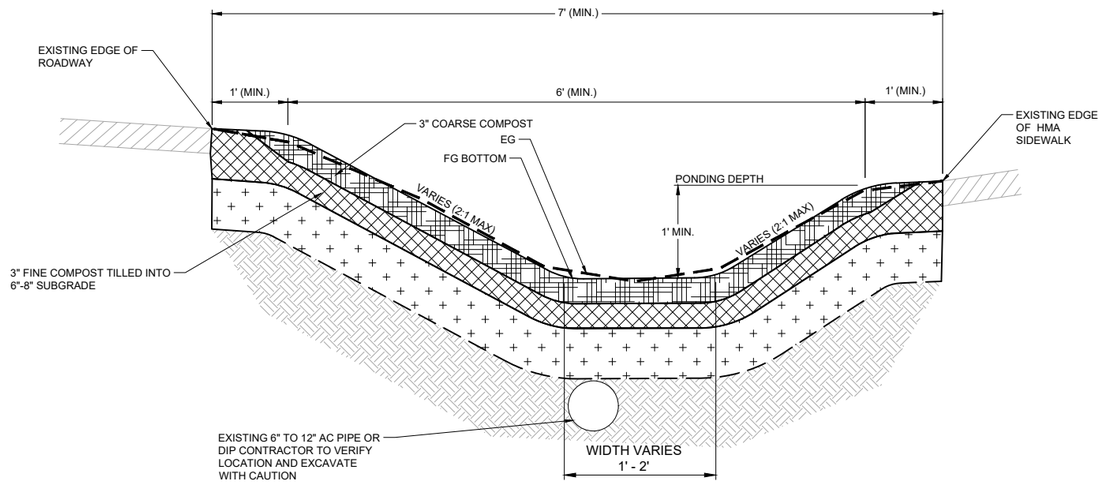


NOTE: SECTIONS PROVIDED ARE TYPICAL GEOMETRIC LAYOUTS FOR BIORETENTION CELL OR VEGETATED SWALE. SEE CITY OF BELLEVUE BIORETENTION DETAIL NO. NDP-2 FOR ADDITIONAL REQUIREMENTS.
SECTION TO BE USED IF SECTION DETAIL B IS INFEASIBLE.

FROM STA 23+85 TO STA 25+98 (213 LF)
FROM STA 26+27 TO STA 26+42 (15 LF)
FROM STA 28+85 TO STA 29+25 (40 LF)
FROM STA 29+43 TO STA 30+41 (98 LF)
FROM STA 32+05 TO STA 32+91 (86 LF)
FROM STA 33+11 TO STA 33+57 (46 LF)

TOTAL SECTION LENGTH = 498 LF

BIORETENTION SECTION DETAIL C
NTS



NOTE: SECTIONS PROVIDED ARE TYPICAL GEOMETRIC LAYOUTS FOR BIORETENTION CELL OR VEGETATED SWALE. SEE CITY OF BELLEVUE SWALE DETAIL NO. NDP-3 FOR ADDITIONAL REQUIREMENTS.
TOPSOIL TYPE B SHALL BE USED IN ANY AREAS REQUIRING FILL AND SHALL BE AMENDED WITH FINE COMPOST AS PER THIS TYPICAL SECTION.

FROM STA 14+56 TO STA 15+27 (71 LF)
FROM STA 16+63 TO STA 18+47 (184 LF)
FROM STA 20+13 TO STA 21+29 (116 LF)

FROM STA 14+38 TO STA 14+56 (18 LF)
FROM STA 15+27 TO STA 15+56 (29 LF)
FROM STA 16+15 TO STA 16+63 (48 LF)
FROM STA 18+47 TO STA 18+75 (28 LF)
FROM STA 21+29 TO STA 21+45 (16 LF)
FROM STA 22+19 TO STA 23+85 (166 LF)

TOTAL SECTION LENGTH WITH 2FT BOTTOM WIDTH = 371 LF

TOTAL SECTION LENGTH WITH 1FT BOTTOM WIDTH = 305 LF

PLANTED SWALE SECTION DETAIL D
NTS

NO.	DATE	BY	APPR.	REVISIONS

KP 01/2021 DESIGNED BY DATE
BC 01/2021 DRAWN BY DATE
RE 01/2021 CHECKED BY DATE

City of Bellevue
Parks & Community Services

90% REVIEW SUBMITTAL

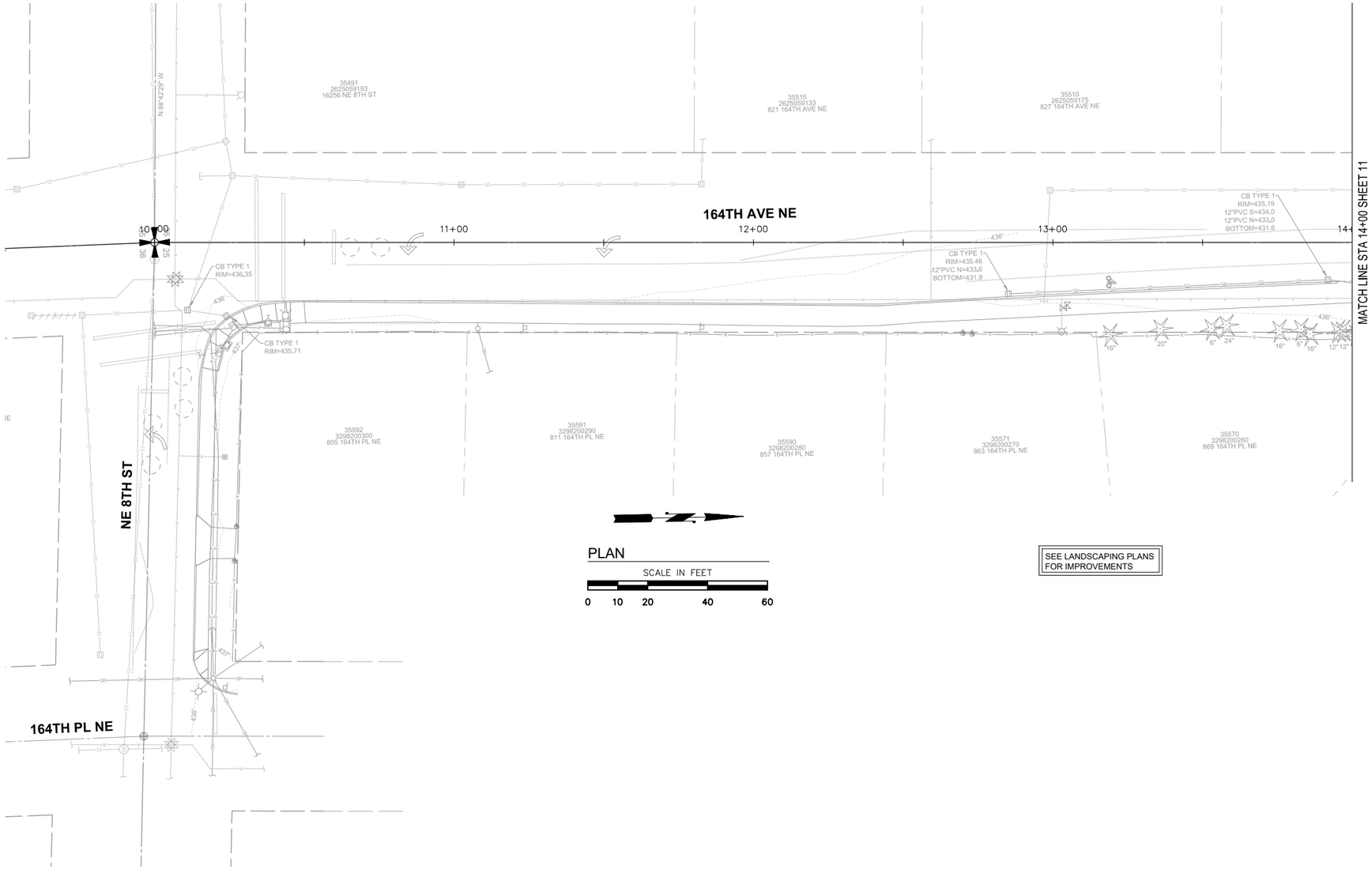
KPG Interdisciplinary Design
SEATTLE 3131 Elliott Ave Suite 400 WA 98121 (206) 286 1640
Tacoma Wenatchee Bellevue www.kpg.com

164TH AVENUE NE
NE 8TH ST TO NORTHUP WAY LID RETROFIT

STORMWATER DETAILS

CIV102

SHT 9 OF 24



PLAN

SCALE IN FEET

0 10 20 40 60

SEE LANDSCAPING PLANS FOR IMPROVEMENTS

GENERAL NOTES

1. STORM DRAINAGE STRUCTURES SHALL CONFORM TO CITY OF BELLEVUE 2020 STORM & SURFACE WATER ENGINEERING STANDARD DETAILS INCLUDING MH & CB ADJUSTMENT DETAIL (D-23), PIPE ZONE BEDDING (D-25A) AND TYPICAL TRENCH DETAIL (D-25).
2. PIPES LABELED "SD" SHALL BE PVC STORM SEWER PIPE PER PROJECT SPECIFICATIONS UNLESS NOTED OTHERWISE.
3. ALL STORM DRAINAGE PIPE SHALL HAVE WATERTIGHT JOINTS.
4. LOCATION AND SIZE OF EXISTING UTILITIES ARE APPROXIMATE.
5. STATION/OFFSET CALLOUTS PROVIDED ARE FOR THE CENTER OF THE DRAINAGE STRUCTURE.
6. THE LOCATIONS OF EXISTING UNDERGROUND UTILITY SYSTEMS, AS SHOWN HEREON, ARE TAKEN FROM UTILITY LOCATE PAINT MARKS OR AS-BUILT PLANS AND ARE SHOWN IN AN APPROXIMATE WAY ONLY.

   THE CONTRACTOR SHALL CALL THE WASHINGTON UTILITY NOTIFICATION CENTER 48 HOURS PRIOR TO CONSTRUCTION. 1-800-424-5555.
7. THE CONTRACTOR SHALL POTHOLE ALL POTENTIAL CONFLICTS WITH UTILITIES TO VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF THE EXISTING UTILITIES.
8. THE CONTRACTOR SHALL MAINTAIN 10 FOOT MINIMUM TRAVEL LANES AND BIKE LANES DURING CONSTRUCTION.
9. RESTORE ALL PAVEMENT MARKINGS REMOVED DURING ROADWAY TRENCH RESTORATION FOR UTILITY RESTORATION.
10. **PROTECTION OF THE ENVIRONMENT** NO CONSTRUCTION RELATED ACTIVITY SHALL CONTRIBUTE TO THE DEGRADATION OF THE ENVIRONMENT, ALLOW MATERIAL TO ENTER SURFACE OR GROUND WATERS, OR ALLOW PARTICULATE EMISSIONS TO THE ATMOSPHERE, WHICH EXCEED STATE OR FEDERAL STANDARDS. ANY ACTIONS THAT POTENTIALLY ALLOW A DISCHARGE TO STATE WATERS MUST HAVE PRIOR APPROVAL OF THE WASHINGTON STATE DEPARTMENT OF ECOLOGY.

NO.	DATE	BY	APPR.	REVISIONS

KP 01/2021
DESIGNED BY DATE
BC 01/2021
DRAWN BY DATE
RE 01/2021
CHECKED BY DATE

City of Bellevue
Parks & Community Services

90% REVIEW SUBMITTAL

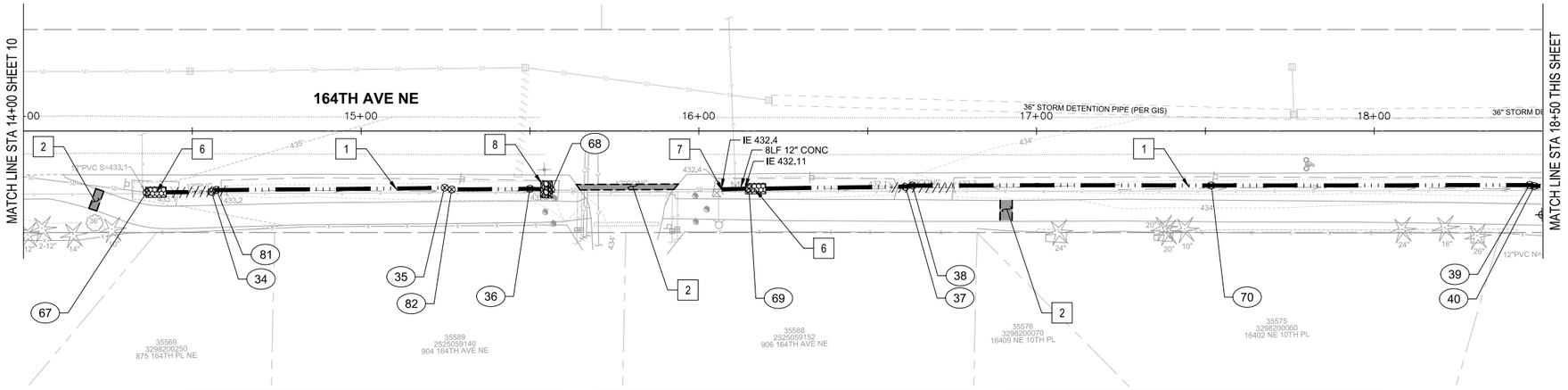
KPG
Interdisciplinary Design
SEATTLE
3131 Elliott Ave
Suite 400 WA 98121
(206) 286 1640
Tacoma
Wenatchee
Bellevue
www.kpg.com

164TH AVENUE NE
NE 8TH ST TO NORTHUP WAY LID RETROFIT

STORMWATER - LID PLANS
164TH AVE NE STA 9+50 TO STA 14+00
NE 8TH ST STA 18+00 TO STA 20+00

CIV103

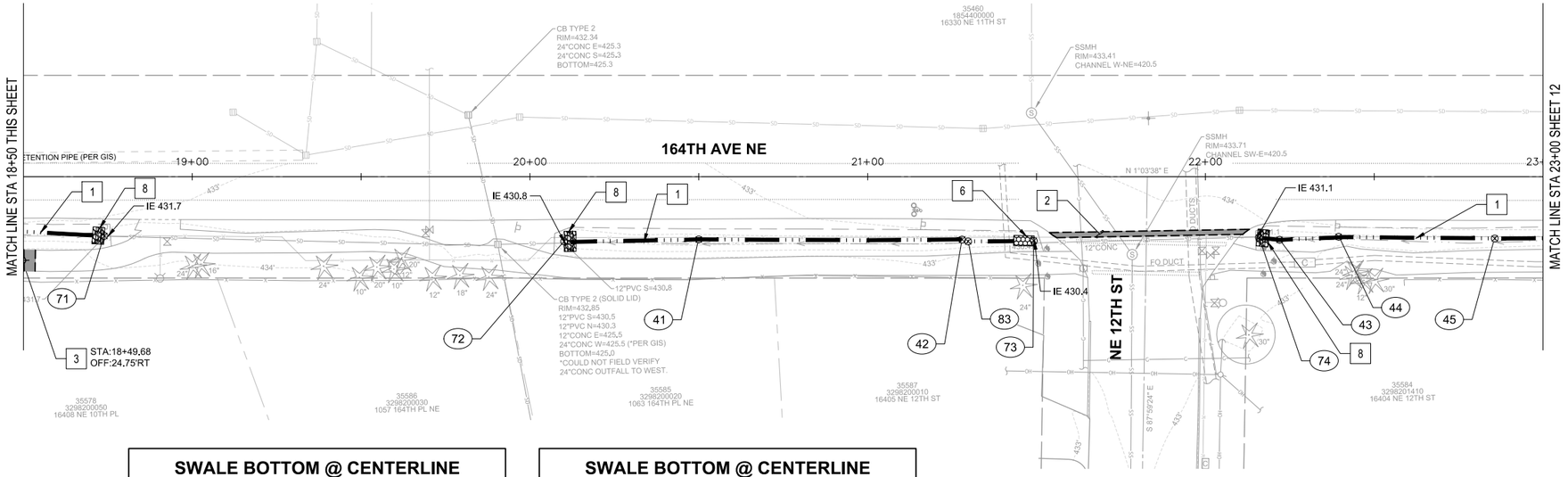
SHT 10 OF 24



SWALE BOTTOM @ CENTERLINE				
NUMBER	STATION	OFFSET	FG ELEV	EG ELEV
67	14+36.47	18.20' RT	433.08	433.25
34	14+55.58	17.94' RT	433.15	433.97
81	14+57.03	17.43' RT	433.13	434.85
35	15+24.75	16.75' RT	433.07	433.44
82	15+26.84	17.29' RT	433.06	433.20
36	15+50.00	17.07' RT	432.05	432.20

SWALE BOTTOM @ CENTERLINE				
NUMBER	STATION	OFFSET	FG ELEV	EG ELEV
68	15+56.30	17.34' RT	433.00	432.42
69	16+14.75	17.01' RT	432.11	432.44
37	16+61.14	16.52' RT	433.13	434.42
38	16+63.17	16.12' RT	433.07	434.30
70	17+51.72	16.11' RT	432.73	432.63
39	18+46.02	15.96' RT	432.12	432.51

SWALE BOTTOM @ CENTERLINE				
NUMBER	STATION	OFFSET	FG ELEV	EG ELEV
40	18+47.44	16.29' RT	431.74	432.42



SWALE BOTTOM @ CENTERLINE				
NUMBER	STATION	OFFSET	FG ELEV	EG ELEV
71	18+73.97	17.54' RT	432.14	431.73
72	20+10.12	19.15' RT	431.26	430.94
41	20+50.00	18.57' RT	431.35	431.25
42	21+27.99	18.62' RT	431.82	431.62
83	21+29.75	19.16' RT	431.70	431.22

SWALE BOTTOM @ CENTERLINE				
NUMBER	STATION	OFFSET	FG ELEV	EG ELEV
73	21+49.22	18.98' RT	430.40	430.92
74	22+15.88	18.03' RT	432.00	431.32
43	22+21.97	18.68' RT	432.00	431.84
44	22+39.49	17.79' RT	432.66	432.97
45	22+85.71	18.28' RT	432.71	432.92

GENERAL NOTES

1. STORM DRAINAGE STRUCTURES SHALL CONFORM TO CITY OF BELLEVUE 2020 STORM & SURFACE WATER ENGINEERING STANDARD DETAILS INCLUDING MH & CB ADJUSTMENT DETAIL (D-23), PIPE ZONE BEDDING (D-25A) AND TYPICAL TRENCH DETAIL (D-25).
2. PIPES LABELED "SD" SHALL BE PVC STORM SEWER PIPE PER PROJECT SPECIFICATIONS UNLESS NOTED OTHERWISE.
3. ALL STORM DRAINAGE PIPE SHALL HAVE WATERTIGHT JOINTS.
4. LOCATION AND SIZE OF EXISTING UTILITIES ARE APPROXIMATE.
5. STATION/OFFSET CALLOUTS PROVIDED ARE FOR THE CENTER OF THE DRAINAGE STRUCTURE.
6. THE LOCATIONS OF EXISTING UNDERGROUND UTILITY SYSTEMS, AS SHOWN HEREON, ARE TAKEN FROM UTILITY LOCATE PAINT MARKS OR AS-BUILT PLANS AND ARE SHOWN IN AN APPROXIMATE WAY ONLY.

   THE CONTRACTOR SHALL CALL THE WASHINGTON UTILITY NOTIFICATION CENTER 48 HOURS PRIOR TO CONSTRUCTION. 1-800-424-5555.
7. THE CONTRACTOR SHALL POTHOLE ALL POTENTIAL CONFLICTS WITH UTILITIES TO VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF THE EXISTING UTILITIES.
8. THE CONTRACTOR SHALL MAINTAIN 10 FOOT MINIMUM TRAVEL LANES AND BIKE LANES DURING CONSTRUCTION.
9. RESTORE ALL PAVEMENT MARKINGS REMOVED DURING ROADWAY TRENCH RESTORATION FOR UTILITY RESTORATION.
10. **PROTECTION OF THE ENVIRONMENT** NO CONSTRUCTION RELATED ACTIVITY SHALL CONTRIBUTE TO THE DEGRADATION OF THE ENVIRONMENT, ALLOW MATERIAL TO ENTER SURFACE OR GROUND WATERS, OR ALLOW PARTICULATE EMISSIONS TO THE ATMOSPHERE, WHICH EXCEED STATE OR FEDERAL STANDARDS. ANY ACTIONS THAT POTENTIALLY ALLOW A DISCHARGE TO STATE WATERS MUST HAVE PRIOR APPROVAL OF THE WASHINGTON STATE DEPARTMENT OF ECOLOGY.

CONSTRUCTION NOTES

1. INSTALL BIORETENTION SWALE WITHOUT UNDERDRAIN. SEE SHEET 8 FOR DETAILS.
2. RESTORE EXISTING HMA PAVEMENT PRE TRENCH AND ROADWAY PAVEMENT RESTORATION PER CITY OF BELLEVUE STANDARD DETAIL NO. D-25 AND RC-190-1.
3. INSTALL HMA PAVEMENT FOR SIDEWALK REPAIR. SEE SHEET 8.
6. INSTALL ROCK PROTECTION OUTFALL PER CITY OF BELLEVUE STANDARD DETAIL NO. D-59.
7. EXTEND EXISTING CULVERT AND INSTALL BEVELED PIPE END SECTION PER CITY OF BELLEVUE STANDARD DETAIL NO. D-34
8. INSTALL BIORETENTION OVERFLOW CHECK DAM. SEE SHEET 8 .

PLAN

SCALE IN FEET

0 10 20 40 60

NO.	DATE	BY	APPR.	REVISIONS

KP 01/2021 DESIGNED BY DATE
BC 01/2021 DRAWN BY DATE
RE 01/2021 CHECKED BY DATE

City of Bellevue
Parks & Community Services

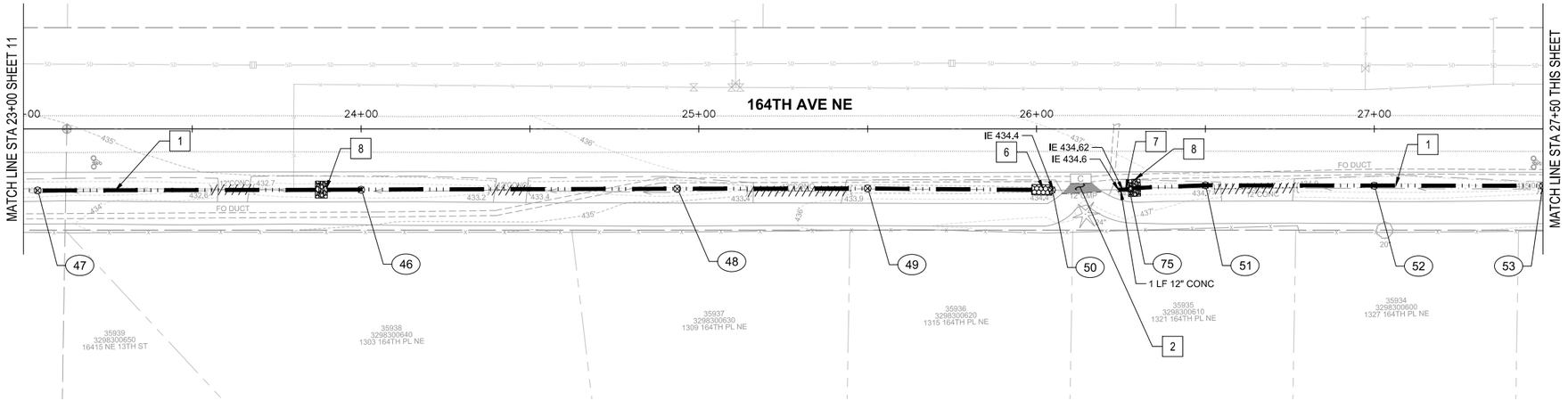
90% REVIEW SUBMITTAL

KPG Interdisciplinary Design
SEATTLE 3131 Elliott Ave Suite 400 WA 98121 (206) 286 1640
Tacoma Wenatchee Bellevue www.kpg.com

164TH AVENUE NE
NE 8TH ST TO NORTHUP WAY LID RETROFIT

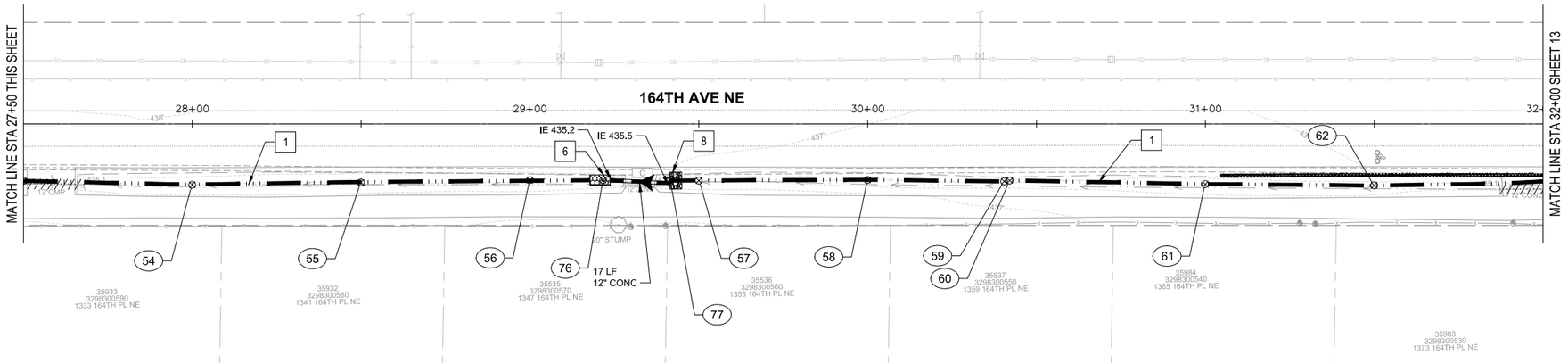
STORMWATER - LID PLANS
164TH AVE NE STA 31+00 TO STA 30+00
NE 12TH ST STA 31+00 TO STA 30+00

CIV104 SHT 11 OF 24



SWALE BOTTOM @ CENTERLINE				
NUMBER	STATION	OFFSET	FG ELEV	EG ELEV
47	23+04.22	18.25' RT	432.89	432.79
46	24+00.03	18.03' RT	433.96	433.58
48	24+93.61	17.73' RT	434.78	434.50
49	25+49.98	17.62' RT	435.29	435.17
50	26+04.57	18.08' RT	433.50	433.87

SWALE BOTTOM @ CENTERLINE				
NUMBER	STATION	OFFSET	FG ELEV	EG ELEV
75	26+27.34	17.62' RT	435.60	435.09
51	26+50.00	16.70' RT	436.22	436.12
52	27+00.00	16.82' RT	436.84	436.38
53	27+50.00	16.85' RT	435.57	436.60



SWALE BOTTOM @ CENTERLINE				
NUMBER	STATION	OFFSET	FG ELEV	EG ELEV
54	27+99.98	18.02' RT	436.20	436.14
55	28+49.95	17.32' RT	436.42	436.37
56	29+00.00	16.65' RT	435.94	436.23
76	29+21.68	16.65' RT	436.15	436.49
77	29+41.47	16.67' RT	435.52	436.22
57	29+50.00	16.78' RT	434.90	435.53

SWALE BOTTOM @ CENTERLINE				
NUMBER	STATION	OFFSET	FG ELEV	EG ELEV
58	30+00.02	16.57' RT	435.19	435.80
59	30+40.42	17.01' RT	434.88	435.55
60	30+42.08	16.75' RT	435.29	435.90
61	31+00.00	17.83' RT	434.85	435.41
62	31+50.00	18.17' RT	433.89	434.46

GENERAL NOTES

1. STORM DRAINAGE STRUCTURES SHALL CONFORM TO CITY OF BELLEVUE 2020 STORM & SURFACE WATER ENGINEERING STANDARD DETAILS INCLUDING MH & CB ADJUSTMENT DETAIL (D-23), PIPE ZONE BEDDING (D-25A) AND TYPICAL TRENCH DETAIL (D-25).
2. PIPES LABELED "SD" SHALL BE PVC STORM SEWER PIPE PER PROJECT SPECIFICATIONS UNLESS NOTED OTHERWISE.
3. ALL STORM DRAINAGE PIPE SHALL HAVE WATERTIGHT JOINTS.
4. LOCATION AND SIZE OF EXISTING UTILITIES ARE APPROXIMATE.
5. STATION/OFFSET CALLOUTS PROVIDED ARE FOR THE CENTER OF THE DRAINAGE STRUCTURE.
6. THE LOCATIONS OF EXISTING UNDERGROUND UTILITY SYSTEMS, AS SHOWN HEREON, ARE TAKEN FROM UTILITY LOCATE PAINT MARKS OR AS-BUILT PLANS AND ARE SHOWN IN AN APPROXIMATE WAY ONLY.

   THE CONTRACTOR SHALL CALL THE WASHINGTON UTILITY NOTIFICATION CENTER 48 HOURS PRIOR TO CONSTRUCTION. 1-800-424-5555.
7. THE CONTRACTOR SHALL POTHOLE ALL POTENTIAL CONFLICTS WITH UTILITIES TO VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF THE EXISTING UTILITIES.
8. THE CONTRACTOR SHALL MAINTAIN 10 FOOT MINIMUM TRAVEL LANES AND BIKE LANES DURING CONSTRUCTION.
9. RESTORE ALL PAVEMENT MARKINGS REMOVED DURING ROADWAY TRENCH RESTORATION FOR UTILITY RESTORATION.
10. **PROTECTION OF THE ENVIRONMENT** NO CONSTRUCTION RELATED ACTIVITY SHALL CONTRIBUTE TO THE DEGRADATION OF THE ENVIRONMENT, ALLOW MATERIAL TO ENTER SURFACE OR GROUND WATERS, OR ALLOW PARTICULATE EMISSIONS TO THE ATMOSPHERE, WHICH EXCEED STATE OR FEDERAL STANDARDS. ANY ACTIONS THAT POTENTIALLY ALLOW A DISCHARGE TO STATE WATERS MUST HAVE PRIOR APPROVAL OF THE WASHINGTON STATE DEPARTMENT OF ECOLOGY.

CONSTRUCTION NOTES

1 INSTALL BIORETENTION SWALE WITHOUT UNDERDRAIN. SEE SHEET 8 FOR DETAILS.

2 RESTORE EXISTING HMA PAVEMENT PRE TRENCH AND ROADWAY PAVEMENT RESTORATION PER CITY OF BELLEVUE STANDARD DETAIL NO. D-25 AND RC-190-1.

6 INSTALL ROCK PROTECTION OUTFALL PER CITY OF BELLEVUE STANDARD DETAIL NO. D-59.

7 EXTEND EXISTING CULVERT AND INSTALL BEVELED PIPE END SECTION PER CITY OF BELLEVUE STANDARD DETAIL NO. D-34

8 INSTALL BIORETENTION OVERFLOW CHECK DAM. SEE SHEET 8 .

PLAN

SCALE IN FEET

0 10 20 40 60

NO.	DATE	BY	APPR.	REVISIONS

KP 01/2021 DESIGNED BY DATE
BC 01/2021 DRAWN BY DATE
RE 01/2021 CHECKED BY DATE

City of Bellevue
Parks & Community Services

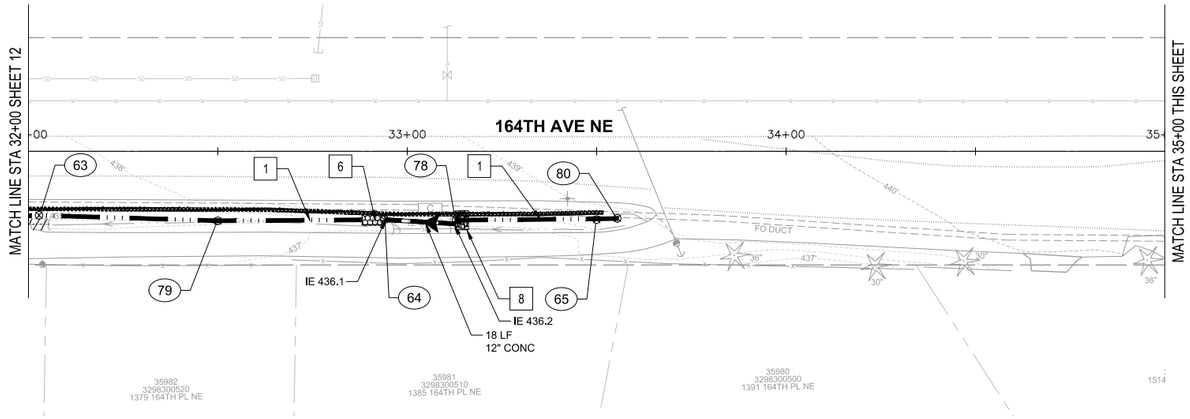
90% REVIEW SUBMITTAL

KPG Interdisciplinary Design
SEATTLE 3131 Elliott Ave Suite 400 WA 98121 (206) 286 1640
Tacoma Wenatchee Bellevue www.kpg.com

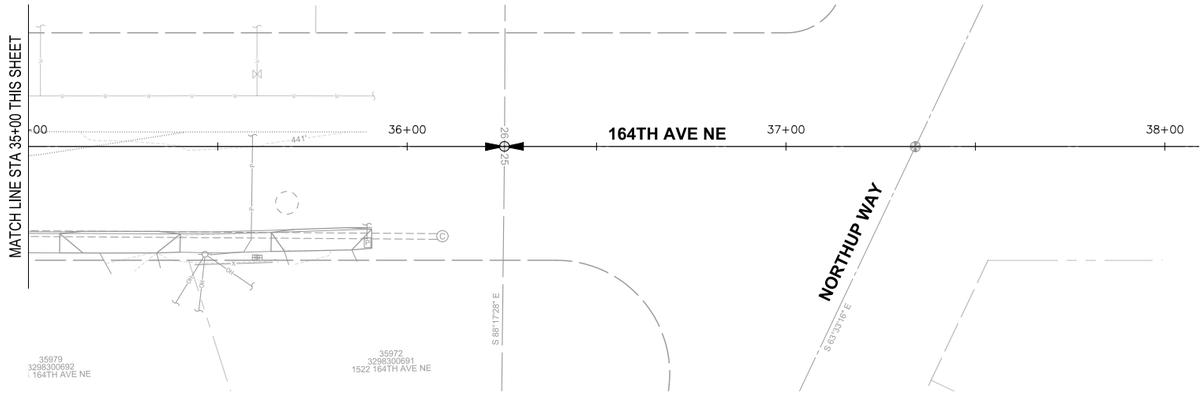
164TH AVENUE NE
NE 8TH ST TO NORTHUP WAY LID RETROFIT

STORMWATER - LID PLANS
164TH AVE NE STA 23+00 TO STA 32+00

CIV105 SHT 12 OF 24



SWALE BOTTOM @ CENTERLINE				
NUMBER	STATION	OFFSET	FG ELEV	EG ELEV
63	32+02.83	16.89' RT	435.87	437.28
79	32+50.00	18.35' RT	435.50	435.97
64	32+94.01	18.05' RT	436.04	437.44
78	33+12.86	18.10' RT	437.00	437.96
65	33+50.00	18.03' RT	435.79	437.22
80	33+55.49	17.70' RT	437.39	438.67



GENERAL NOTES

1. STORM DRAINAGE STRUCTURES SHALL CONFORM TO CITY OF BELLEVUE 2020 STORM & SURFACE WATER ENGINEERING STANDARD DETAILS INCLUDING MH & CB ADJUSTMENT DETAIL (D-23), PIPE ZONE BEDDING (D-25A) AND TYPICAL TRENCH DETAIL (D-25).
2. PIPES LABELED "SD" SHALL BE PVC STORM SEWER PIPE PER PROJECT SPECIFICATIONS UNLESS NOTED OTHERWISE.
3. ALL STORM DRAINAGE PIPE SHALL HAVE WATERTIGHT JOINTS.
4. LOCATION AND SIZE OF EXISTING UTILITIES ARE APPROXIMATE.
5. STATION/OFFSET CALLOUTS PROVIDED ARE FOR THE CENTER OF THE DRAINAGE STRUCTURE.
6. THE LOCATIONS OF EXISTING UNDERGROUND UTILITY SYSTEMS, AS SHOWN HEREON, ARE TAKEN FROM UTILITY LOCATE PAINT MARKS OR AS-BUILT PLANS AND ARE SHOWN IN AN APPROXIMATE WAY ONLY.

   THE CONTRACTOR SHALL CALL THE WASHINGTON UTILITY NOTIFICATION CENTER 48 HOURS PRIOR TO CONSTRUCTION. 1-800-424-5555.
7. THE CONTRACTOR SHALL POTHOLE ALL POTENTIAL CONFLICTS WITH UTILITIES TO VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF THE EXISTING UTILITIES.
8. THE CONTRACTOR SHALL MAINTAIN 10 FOOT MINIMUM TRAVEL LANES AND BIKE LANES DURING CONSTRUCTION.
9. RESTORE ALL PAVEMENT MARKINGS REMOVED DURING ROADWAY TRENCH RESTORATION FOR UTILITY RESTORATION.
10. **PROTECTION OF THE ENVIRONMENT** NO CONSTRUCTION RELATED ACTIVITY SHALL CONTRIBUTE TO THE DEGRADATION OF THE ENVIRONMENT, ALLOW MATERIAL TO ENTER SURFACE OR GROUND WATERS, OR ALLOW PARTICULATE EMISSIONS TO THE ATMOSPHERE, WHICH EXCEED STATE OR FEDERAL STANDARDS. ANY ACTIONS THAT POTENTIALLY ALLOW A DISCHARGE TO STATE WATERS MUST HAVE PRIOR APPROVAL OF THE WASHINGTON STATE DEPARTMENT OF ECOLOGY.

CONSTRUCTION NOTES

1 INSTALL BIORETENTION SWALE WITHOUT UNDERDRAIN. SEE SHEET 8 FOR DETAILS.

6 INSTALL ROCK PROTECTION OUTFALL PER CITY OF BELLEVUE STANDARD DETAIL NO. D-59.

8 INSTALL BIORETENTION OVERFLOW CHECK DAM. SEE SHEET 8 .

PLAN

SCALE IN FEET

0 10 20 40 60

NO.	DATE	BY	APPR.	REVISIONS

KP 01/2021 DESIGNED BY DATE
BC 01/2021 DRAWN BY DATE
RE 01/2021 CHECKED BY DATE

City of Bellevue
Parks & Community Services

90% REVIEW SUBMITTAL

KPG Interdisciplinary Design
SEATTLE 3131 Elliott Ave Suite 400 WA 98121 (206) 286 1640
Tacoma Wenatchee Bellevue www.kpg.com

164TH AVENUE NE
NE 8TH ST TO NORTHUP WAY LID RETROFIT

STORMWATER - LID PLANS
164TH AVE NE STA 32+00 TO STA 38+00

CIV106 SHT 13 OF 24

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NUMBER	DESCRIPTION
▲ RCS ▲ SS	HUNTER MP ROTATOR SIDE AND CORNER STRIP W/ RAINBIRD SAM PRS 30 1812	SPRAY HEAD W/ 12" POP-UP. RCS-515 4X14, SS-530 4X28 STRIP PATTERN AT 30 PSI. SWING ARM ASSEMBLY PER COB STANDARD DETAIL PK-10 A-B
8H 8T 8Q	HUNTER MP ROTATOR MP800 W/ W/RAINBIRD SAM PRS 30 1812	SPRAY HEAD - 12" POP-UP. 8' RADIUS AT 30 PSI. INSTALL ON SWING ARM ASSEMBLY PER COB STANDARD DETAIL PK-10 A-B
	NETAFIM TECHLINE SUBSURFACE DRIPPER LINE ZONE AREAS	PRESSURE COMPENSATING AND CONTINUOUS SELF FLUSHING DRIPLINE WITH LINE-FLUSHING VALVE AT LOW POINTS OF EACH ZONE AND AT END OF EACH ZONE. INSTALL PER COB STANDARD IRRIGATIONS DETAILS
C	EXISTING CONTROLLER, WITH ADDITIONAL (2) ESPLXMSM12:	EXISTING IRRIGATION CONTROLLER VERIFY LOCATION IN FIELD WITH BELLEVUE PARKS DEPARTMENT. PROVIDE AND INSTALL (2) ADDTIONAL 12 STATION MODULES. COORDINATE EXTENDING NEW VALVE WIRING FOR NEW SYSTEM ACROSS 164TH THROUGH EXISTING SLEEVE.
	RAINBIRD PEB	1" AUTOMATIC CONTROL VALVE, WITH FLOW CONTROL. INSTALL PER COB STANDARD DETAIL PK-IR-08A
DP	RAINBIRD PEB	1" AUTOMATIC DRIP CONTROL VALVE, WITH FLOW CONTROL. INSTALL PER COB STANDARD DETAIL PK-IR-0B
Q	BUCKNER QB5 LRC-10	1" QUICK COUPLER VALVE, INSTALL PER COB STANDARD DETAIL PK-IR-11A
– — — — — — — –		PVC SCH 40, IRRIGATION MAIN LINE - 24" MIN COVER, SIZE AS NOTED, INSTALL PER COB STANDARD DETAIL PK-IR-13A-B
———		PVC SCH 40, LATERAL SUPPLY LINE - 18" MIN. COVER - SIZE AS NOTED.
—— – — – — – —— —— – — – — – ——		SLEEVING, PVC SCHEDULE 40, SIZE UNDER ROADWAY PAVEMENT A MIN. OF 6", UNDER SIDEWALK PAVEMENT AND AT LEAST TWICE INSERT PIPE(S) DIA.

POC — EXISTING POINT OF CONNECTION, VERIFY LOCATION WITH BELLEVUE PARKS DEPARTMENT. EXTEND 2" MAINLINE THROUGH EXISTING SLEEVE AS NOTED ON PLANS, VERIFY SLEEVE LOCATION PRIOR TO START OF WORK.

*NOTE: REFER TO CITY OF BELLEVUE STANDARD DETAILS FOR IRRIGATION EQUIPMENT INSTALLATION AND ADDITIONAL EQUIPMENT REQUIREMENTS, SEE APPENDIX A OF THE SPECIAL PROVISIONS.

1	← INDICATES VALVE #
10.5	← INDICATES APPROX. GPM
1"	← INDICATES VALVE SIZE

GENERAL NOTES

1. COORDINATE INSTALLATION OF IRRIGATION SYSTEM WITH INSTALLATION OF OTHER UTILITIES. LOCATE AND PROTECT ALL UNDERGROUND UTILITIES DURING INSTALLATION OF IRRIGATION SYSTEM. CONTRACTOR MUST COORDINATE SLEEVING WITH INSTALLATION OF UNDERGROUND UTILITIES (INCLUDING ELECTRICAL, SEWER, WATER AND GAS) SIDEWALK, ILLUMINATION AND SIGNALIZATION EQUIPMENT.
2. IRRIGATION SYSTEM SHALL BE INSTALLED, TESTED, MAINTAINED AND GUARANTEED AS PER SPECIFICATIONS.
3. IRRIGATION SYSTEM IS DESIGNED TO OPERATE AT 30-40 PSI. CONTRACTOR SHALL FIELD CHECK EXISTING WATER PRESSURE, ADJUSTING PRV AS NECESSARY TO PROVIDE OPTIMUM PERFORMANCE.
4. LOCATIONS OF IRRIGATION MAIN LINE, LATERALS, SLEEVING AND VALVES INDICATED ON DRAWINGS ARE SCHEMATIC ONLY. ADJUST LOCATIONS AS NECESSARY. DO NOT OVER-SPRAY ONTO PAVED SURFACES.
5. MAIN LINE SHALL BE BURIED TO A DEPTH OF 24" BELOW FINISH GRADE. LATERAL LINE SHALL BE BURIED TO A DEPTH OF 18" BELOW FINISH GRADE.
6. SLEEVE UNDER ALL PAVED SURFACES AND ASPHALT PATHWAY . SEE IRRIGATION PLANS FOR LOCATION OF PVC SLEEVING. SLEEVING UNDER PATHWAY SHALL BE A MIN OF 4" AND UNDER ROADWAY PAVEMENT A MIN OF 6". SLEEVING SHALL BE AT LEAST (2) TIMES THE DIAMETER OF THE INSERT PIPE AND WIRES. WHERE FEASIBLE COORDINATE PLACEMENT OF IRRIGATION LINES NEXT TO OR IN OTHER UTILITY TRENCHES TO MINIMIZE PAVEMENT CROSSINGS.
7. CONTROLLER WIRES SHALL BE TAPED TO IRRIGATION MAIN LINE WHERE POSSIBLE. IF NOT AVAILABLE, WIRES TO CONTROLLER SHALL BE PLACED IN 1½"DIA (MIN) SLEEVE, USE 3M DBY SPLICE KITS.
8. ALL EQUIPMENT SHALL BE AS SPECIFIED OR APPROVED EQUAL. SYSTEM IS SPECIFICALLY DESIGNED FOR IRRIGATION EQUIPMENT SHOWN ON PLANS AND SUBSTITUTION WILL REQUIRE REDESIGN AND RECALCULATION OF IRRIGATION ZONES.
9. COORDINATE WITH THE CITY'S INSPECTOR TO ENSURE THAT COB PARKS DEPARTMENT IS NOTIFIED AT LEAST 72 HOURS IN ADVANCE OF STARTING CONSTRUCTION WORK. LOCATE ALL EXISTING HEADS IN AREAS OF DISTURBANCE, REMOVE AND SAVE FOR REINSTALLATION AS REQUIRED. ALL WORK ON EXISTING STREET IRRIGATION SYSTEM, INCLUDING CUTTING, CAPPING, REMOVAL, OR RELOCATION OF IRRIGATION HEADS, PIPING OR OTHER EQUIPMENT SHALL BE PERFORMED BY A LICENSED LANDSCAPE CONTRACTOR AND SHALL BE SUPERVISED BY PARKS STAFF.
10. LOCATE NEW IRRIGATION LINES IN PLANTER OR LAWN AREAS WHERE FEASIBLE. ANY IRRIGATION PIPING LOCATED UNDER PAVEMENT SHALL BE SLEEVED AND PROVIDE ONE (6") SPARE SLEEVE AND ONE (2") WIRE CONDUIT WITH 3 SET OF SPARE WIRES AS REQUIRED.

NO.	DATE	BY	APPR.	REVISIONS

TF 08/2021 DESIGNED BY DATE
TF 08/2021 DRAWN BY DATE
LG 08/2021 CHECKED BY DATE

City of Bellevue
Parks & Community Services

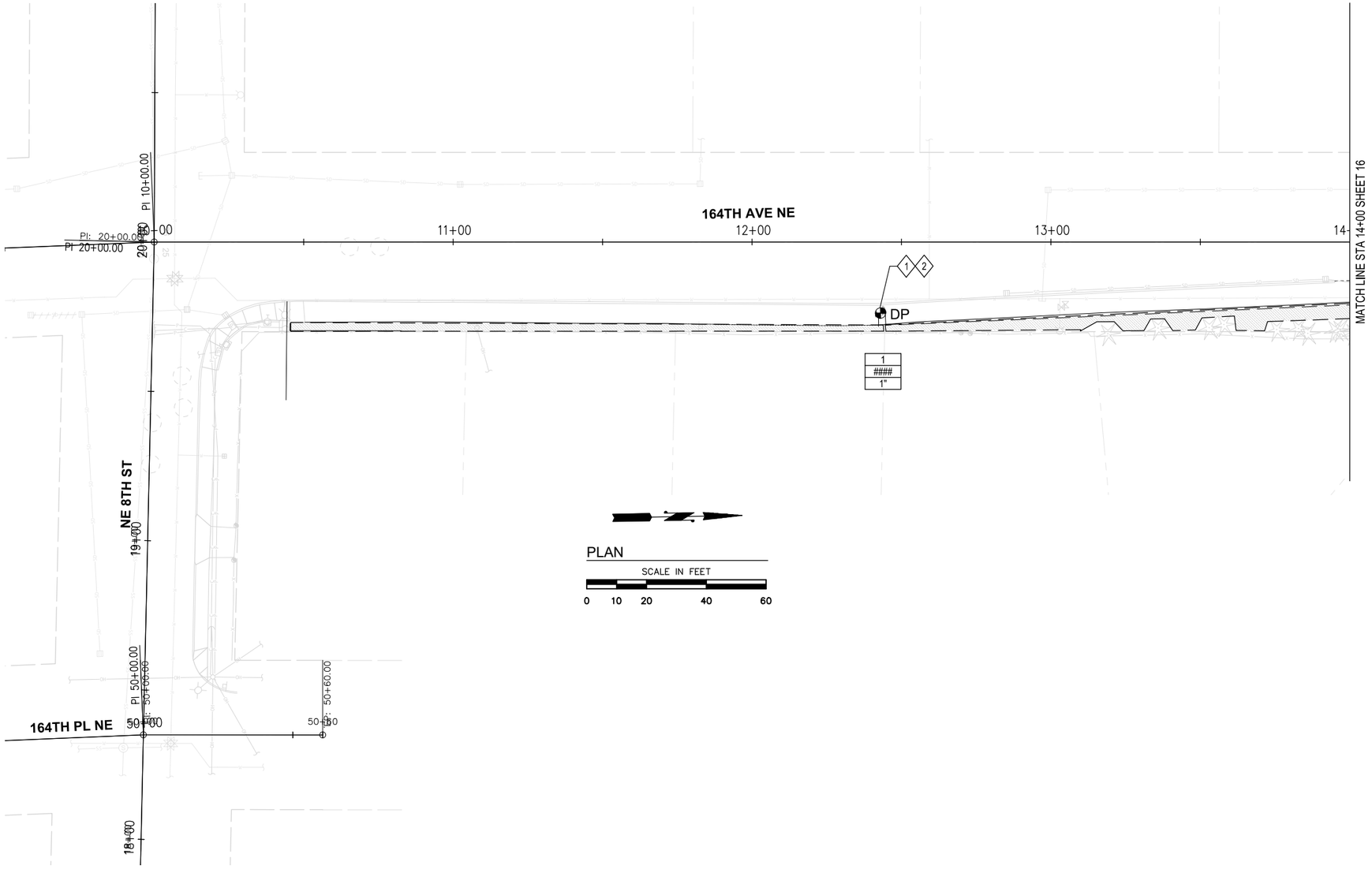
90% REVIEW SUBMITTAL

KPG Interdisciplinary Design
SEATTLE 3131 Elliott Ave Suite 400 WA 98121 (206) 286 1640
Tacoma Wenatchee Bellevue
www.kpg.com

164TH AVENUE NE
NE 8TH ST TO NORTHUP WAY LID RETROFIT

IRRIGATION SCHEDULE & DETAILS

IRR101



PLAN

SCALE IN FEET

0 10 20 40 60

CONSTRUCTION NOTES

1. ALL VALVE BOXES TO BE LOCATED IN PLANTER AREA. INSTALL VALVE BOX TIGHT TO EDGE OF PAVEMENT TO MAXIMIZE PLANTING AREA. LOCATION SHOWN IS DIAGRAMMATIC.
2. MAIN AND LATERAL LINES TO BE LOCATED IN PLANTER AREA. LOCATION SHOWN IS DIAGRAMMATIC.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER	MODEL NO.
	RAINBIRD PGP	AUTOMATIC CONTROL VALVE
DP	RAINBIRD PGP	AUTOMATIC DRIP CONTROL VALVE
SS-530	HUNTER	MP SIDE STRIP SERIES
RCS-515	HUNTER	MP CORNER STRIP SERIES
8F 8H 8Q	HUNTER	MP800 SERIES
	APPROXIMATE DRIP ZONE AREAS.	

SEE SHEET IRR101 FOR COMPLETE IRRIGATION SCHEDULE.

PIPE SIZE CHART

GPM	SIZE
0 - 13	1"
13 - 22	1¼"
22 - 30	1½"
30 - 50	2"

NOTE: ALL IRRIGATION MAINLINE SHALL BE 2" PVC SCH 40, UNLESS OTHERWISE NOTED ON PLANS

SEE SHEET IRR101 FOR IRRIGATION SCHEDULE, GENERAL NOTES AND DETAILS. REFER TO CITY OF BELLEVUE STANDARD DETAILS FOR IRRIGATION EQUIPMENT INSTALLATION AND ADDITIONAL EQUIPMENT REQUIREMENTS.

IRRIGATION GPM AND PIPE SIZING WILL BE PROVIDED AT BID SUBMITTAL.

CALL 2 DAYS BEFORE YOU DIG 811

NO.	DATE	BY	APPR.	REVISIONS

TF 08/2021 DESIGNED BY DATE
TF 08/2021 DRAWN BY DATE
LG 08/2021 CHECKED BY DATE

City of Bellevue
Parks & Community Services

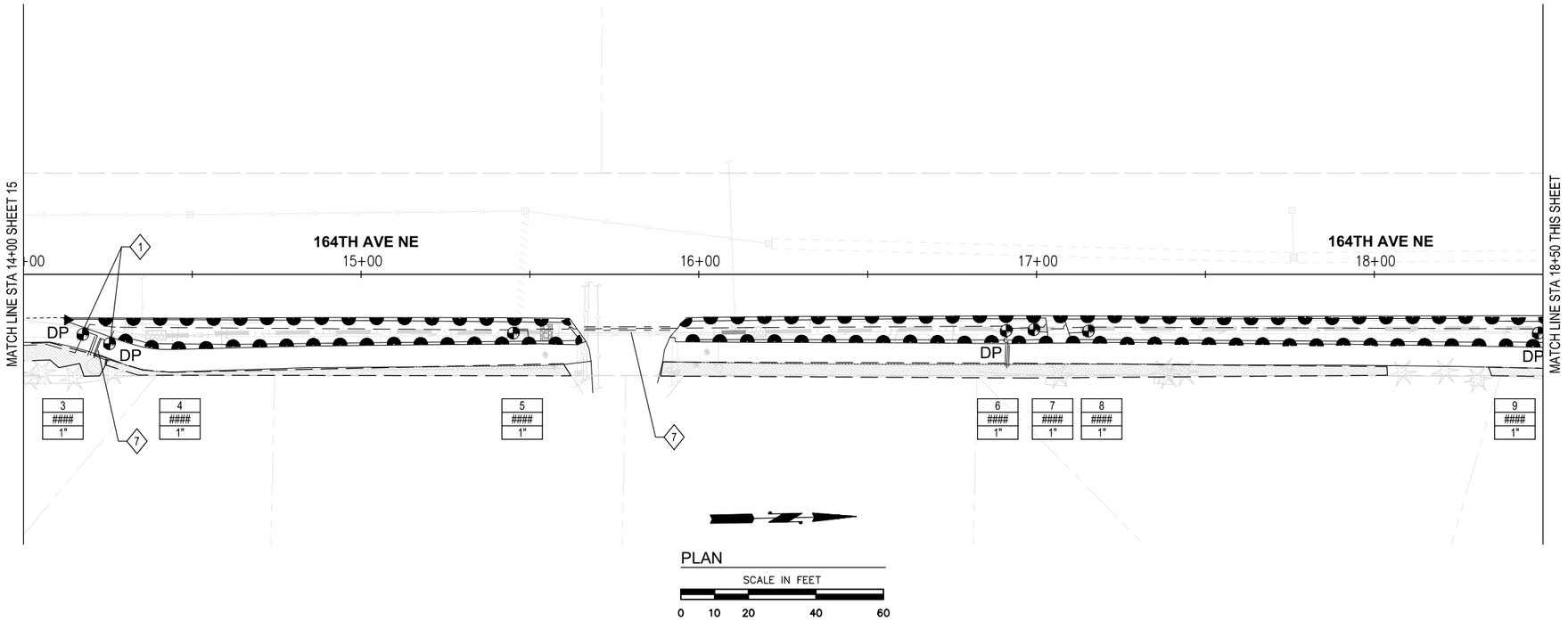
90% REVIEW SUBMITTAL

KPG
Interdisciplinary Design
SEATTLE
3131 Elliott Ave
Suite 400 WA 98121
(206) 286 1640
Tacoma
Wenatchee
Bellevue
www.kpg.com

164TH AVENUE NE
NE 8TH ST TO NORTHUP WAY LID RETROFIT

IRRIGATION PLANS
164TH AVE NE STA 9+50 TO STA 14+00
NE 8TH ST STA 18+00 TO STA 20+00

IRR103 SHT 15 OF 24



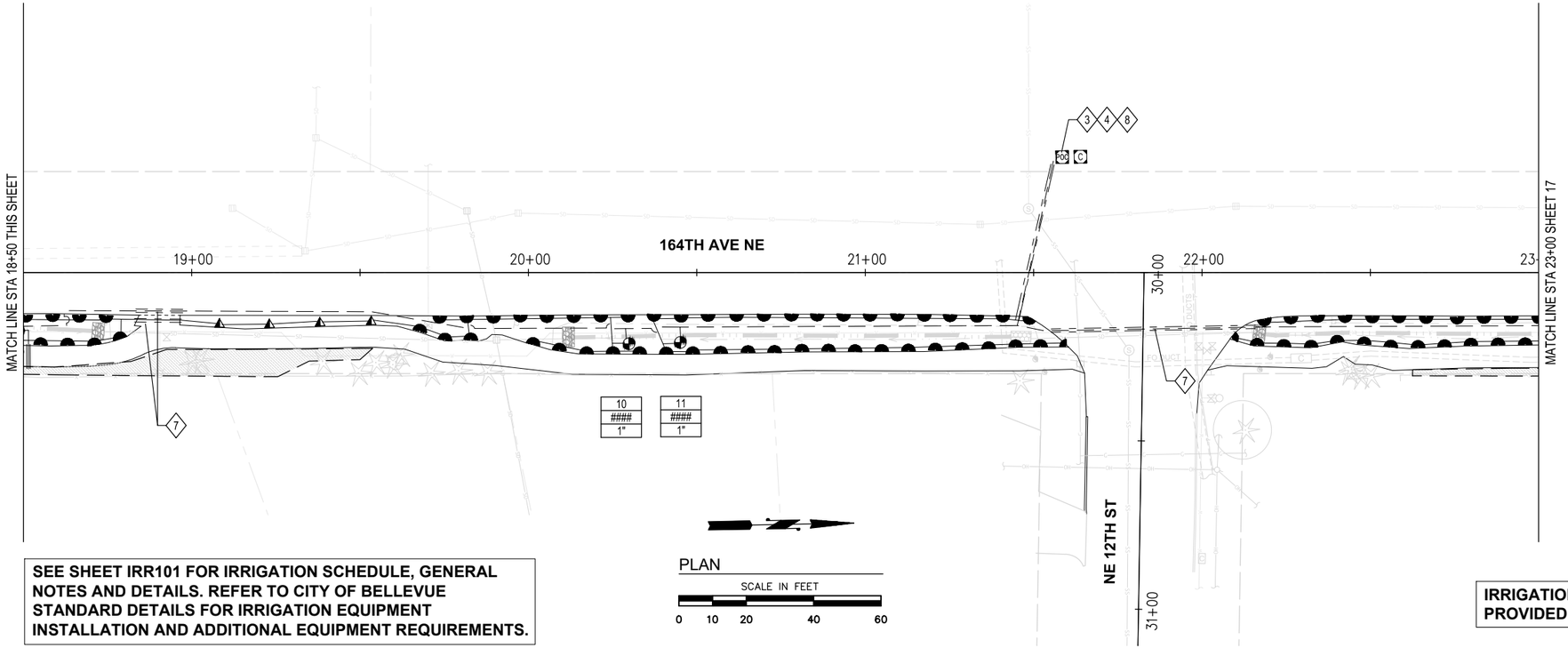
PLAN

SCALE IN FEET

0 10 20 40 60

CONSTRUCTION NOTES

1. ALL VALVE BOXES TO BE LOCATED IN PLANTER AREA. INSTALL VALVE BOX TIGHT TO EDGE OF PAVEMENT TO MAXIMIZE PLANTING AREA. LOCATION SHOWN IS DIAGRAMMATIC.
2. MAIN AND LATERAL LINES TO BE LOCATED IN PLANTER AREA. LOCATION SHOWN IS DIAGRAMMATIC.
3. EXISTING IRRIGATION CONTROLLER, EXTEND ADDITIONAL VALVE WIRING TO NEW VALVES ON EAST SIDE OF 164TH AVE.
4. EXISTING POC, CUT INTO AND EXTEND 2" MAINLINE TO NEW SYSTEM ON EAST SIDE OF 164TH AVE.
5. INSTALL QUICK COUPLER IN VALVE BOX.
6. EXISTING SLEEVE FOR IRRIGATION EXTENSION, VERIFY LOCATION WITH BELLEVUE PARKS DEPARTMENT.
7. NEW SLEEVING FOR PROPOSED SYSTEM.
8. INSTALL GATE VALVE WEST SIDE OF 164TH AT ROAD CROSSING, PER COB DETAIL PK-IR-07B.



PLAN

SCALE IN FEET

0 10 20 40 60

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER	MODEL NO.
	RAINBIRD PGP	AUTOMATIC CONTROL VALVE
DP	RAINBIRD PGP	AUTOMATIC DRIP CONTROL VALVE
SS-530	HUNTER	MP SIDE STRIP SERIES
RCS-515	HUNTER	MP CORNER STRIP SERIES
8F 8H 8Q	HUNTER	MP800 SERIES
		APPROXIMATE DRIP ZONE AREAS.

SEE SHEET IRR101 FOR COMPLETE IRRIGATION SCHEDULE.

PIPE SIZE CHART

GPM	SIZE
0 - 13	1"
13 - 22	1¼"
22 - 30	1½"
30 - 50	2"

NOTE: ALL IRRIGATION MAINLINE SHALL BE 2" PVC SCH 40, UNLESS OTHERWISE NOTED ON PLANS

SEE SHEET IRR101 FOR IRRIGATION SCHEDULE, GENERAL NOTES AND DETAILS. REFER TO CITY OF BELLEVUE STANDARD DETAILS FOR IRRIGATION EQUIPMENT INSTALLATION AND ADDITIONAL EQUIPMENT REQUIREMENTS.

IRRIGATION GPM AND PIPE SIZING WILL BE PROVIDED AT BID SUBMITTAL.

CALL 2 DAYS BEFORE YOU DIG 811

NO.	DATE	BY	APPR.	REVISIONS

TF	08/2021
DESIGNED BY	DATE
TF	08/2021
DRAWN BY	DATE
LG	08/2021
CHECKED BY	DATE

City of Bellevue
Parks & Community Services

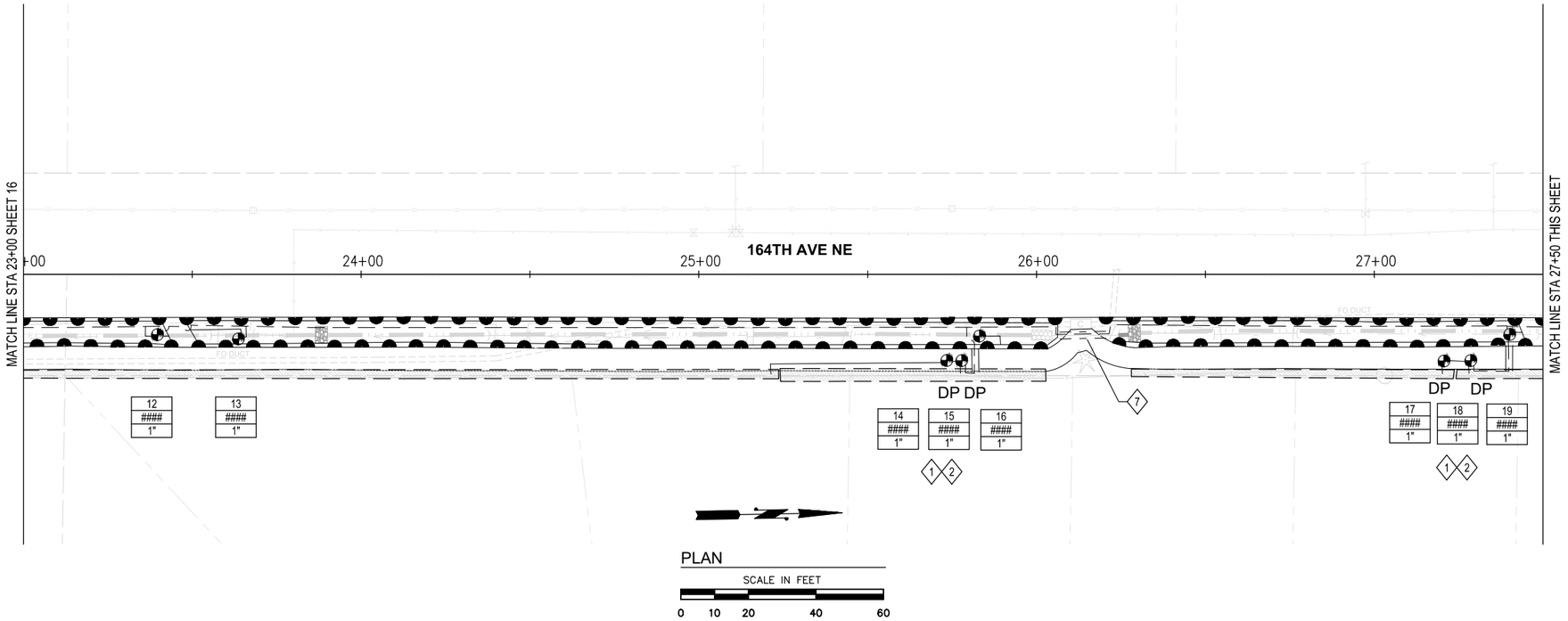
90% REVIEW SUBMITTAL

KPG
Interdisciplinary Design
SEATTLE
3131 Elliott Ave
Suite 400 WA 98121
(206) 286 1640
Tacoma
Wenatchee
Bellevue
www.kpg.com

164TH AVENUE NE
NE 8TH ST TO NORTHUP WAY LID RETROFIT

IRRIGATION PLANS
164TH AVE NE STA 31+00 TO STA 30+00
NE 12TH ST STA 31+00 TO STA 30+00

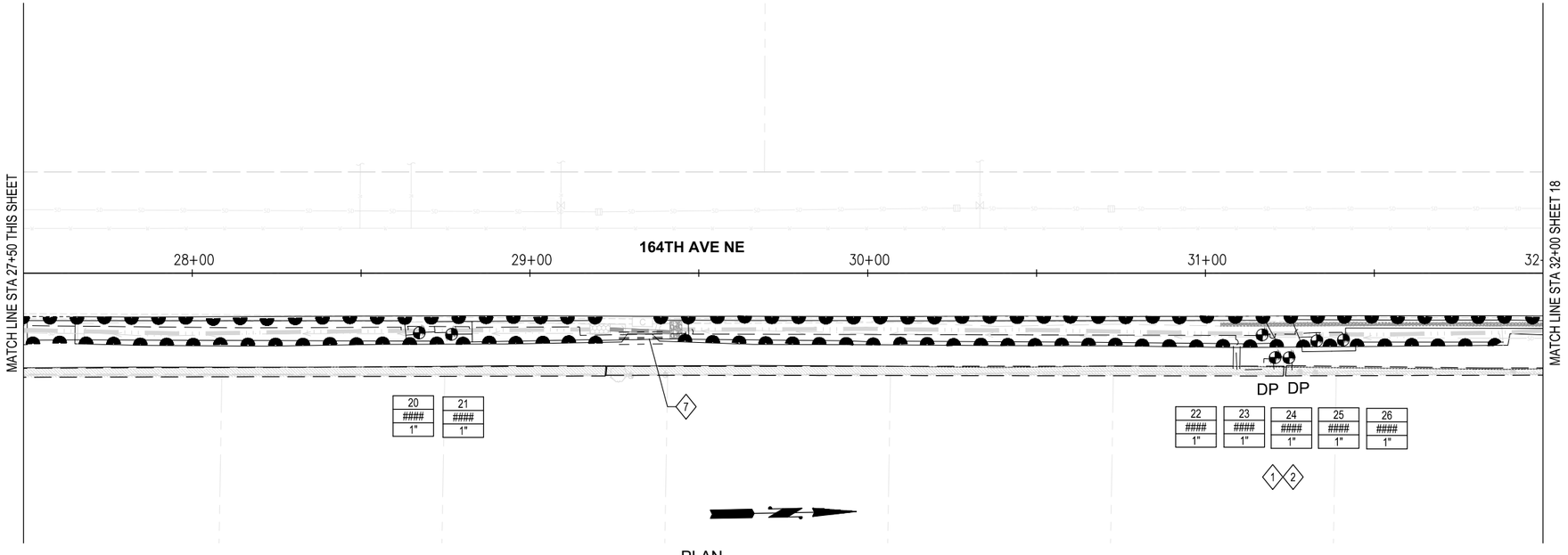
IRR104 SHT 16 OF 24



PLAN

SCALE IN FEET

0 10 20 40 60



PLAN

SCALE IN FEET

0 10 20 40 60

SEE SHEET IRR101 FOR IRRIGATION SCHEDULE, GENERAL NOTES AND DETAILS. REFER TO CITY OF BELLEVUE STANDARD DETAILS FOR IRRIGATION EQUIPMENT INSTALLATION AND ADDITIONAL EQUIPMENT REQUIREMENTS.

CONSTRUCTION NOTES

1. ALL VALVE BOXES TO BE LOCATED IN PLANTER AREA. INSTALL VALVE BOX TIGHT TO EDGE OF PAVEMENT TO MAXIMIZE PLANTING AREA. LOCATION SHOWN IS DIAGRAMMATIC.
2. MAIN AND LATERAL LINES TO BE LOCATED IN PLANTER AREA. LOCATION SHOWN IS DIAGRAMMATIC.
3. EXISTING IRRIGATION CONTROLLER, EXTEND ADDITIONAL VALVE WIRING TO NEW VALVES ON EAST SIDE OF 164TH AVE.
4. EXISTING POC, CUT INTO AND EXTEND 2" MAINLINE TO NEW SYSTEM ON EAST SIDE OF 164TH AVE.
5. INSTALL QUICK COUPLER IN VALVE BOX.
6. EXISTING SLEEVE FOR IRRIGATION EXTENSION, VERIFY LOCATION WITH BELLEVUE PARKS DEPARTMENT.
7. NEW SLEEVING FOR PROPOSED SYSTEM.

IRRIGATION GPM AND PIPE SIZING WILL BE PROVIDED AT BID SUBMITTAL.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER	MODEL NO.
	RAINBIRD PGP	AUTOMATIC CONTROL VALVE
DP	RAINBIRD PGP	AUTOMATIC DRIP CONTROL VALVE
SS-530	HUNTER	MP SIDE STRIP SERIES
RCS-515	HUNTER	MP CORNER STRIP SERIES
8F 8H 8Q	HUNTER	MP800 SERIES
		APPROXIMATE DRIP ZONE AREAS.

SEE SHEET IRR101 FOR COMPLETE IRRIGATION SCHEDULE.

PIPE SIZE CHART

GPM	SIZE
0 - 13	1"
13 - 22	1¼"
22 - 30	1½"
30 - 50	2"

NOTE: ALL IRRIGATION MAINLINE SHALL BE 2" PVC SCH 40, UNLESS OTHERWISE NOTED ON PLANS

CALL 2 DAYS BEFORE YOU DIG 811

NO.	DATE	BY	APPR.	REVISIONS

TF 08/2021 DESIGNED BY DATE
TF 08/2021 DRAWN BY DATE
LG 08/2021 CHECKED BY DATE

City of Bellevue
Parks & Community Services

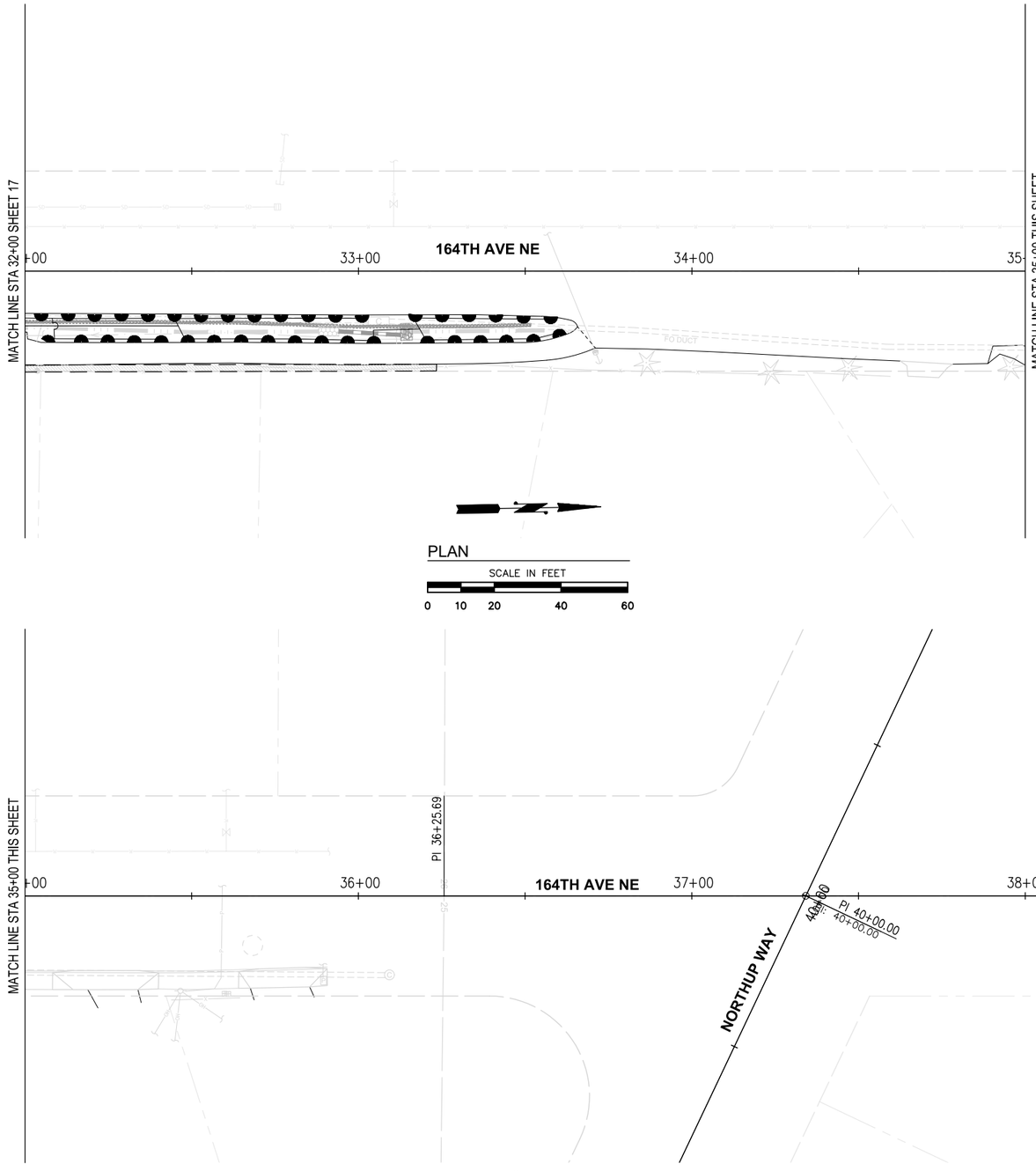
90% REVIEW SUBMITTAL

KPG Interdisciplinary Design
SEATTLE 3131 Elliott Ave Suite 400 WA 98121 (206) 286 1640
Tacoma Wenatchee Bellevue www.kpg.com

164TH AVENUE NE
NE 8TH ST TO NORTHUP WAY LID RETROFIT

IRRIGATION PLANS
164TH AVE NE STA 23+00 TO STA 32+00

IRR105 SHT 17 OF 24



PLAN

SCALE IN FEET

0 10 20 40 60

PLAN

SCALE IN FEET

0 10 20 40 60

CONSTRUCTION NOTES

1. ALL VALVE BOXES TO BE LOCATED IN PLANTER AREA. INSTALL VALVE BOX TIGHT TO EDGE OF PAVEMENT TO MAXIMIZE PLANTING AREA. LOCATION SHOWN IS DIAGRAMMATIC.
2. MAIN AND LATERAL LINES TO BE LOCATED IN PLANTER AREA. LOCATION SHOWN IS DIAGRAMMATIC.
3. EXISTING IRRIGATION CONTROLLER, EXTEND ADDITIONAL VALVE WIRING TO NEW VALVES ON EAST SIDE OF 164TH AVE.
4. EXISTING POC, CUT INTO AND EXTEND 2" MAINLINE TO NEW SYSTEM ON EAST SIDE OF 164TH AVE.
5. INSTALL QUICK COUPLER IN VALVE BOX.
6. EXISTING SLEEVE FOR IRRIGATION EXTENSION, VERIFY LOCATION WITH BELLEVUE PARKS DEPARTMENT.
7. NEW SLEEVING FOR PROPOSED SYSTEM.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER	MODEL NO.
	RAINBIRD PGP	AUTOMATIC CONTROL VALVE
DP	RAINBIRD PGP	AUTOMATIC DRIP CONTROL VALVE
SS-530	HUNTER	MP SIDE STRIP SERIES
RCS-515	HUNTER	MP CORNER STRIP SERIES
8F 8H 8Q	HUNTER	MP800 SERIES
	APPROXIMATE DRIP ZONE AREAS.	

SEE SHEET IRR101 FOR COMPLETE IRRIGATION SCHEDULE.

PIPE SIZE CHART

GPM	SIZE
0 - 13	1"
13 - 22	1¼"
22 - 30	1½"
30 - 50	2"

NOTE: ALL IRRIGATION MAINLINE SHALL BE 2" PVC SCH 40, UNLESS OTHERWISE NOTED ON PLANS

SEE SHEET IRR101 FOR IRRIGATION SCHEDULE, GENERAL NOTES AND DETAILS. REFER TO CITY OF BELLEVUE STANDARD DETAILS FOR IRRIGATION EQUIPMENT INSTALLATION AND ADDITIONAL EQUIPMENT REQUIREMENTS.

IRRIGATION GPM AND PIPE SIZING WILL BE PROVIDED AT BID SUBMITTAL.

CALL 2 DAYS BEFORE YOU DIG 811

NO.	DATE	BY	APPR.	REVISIONS

TF 08/2021 DESIGNED BY DATE
TF 08/2021 DRAWN BY DATE
LG 08/2021 CHECKED BY DATE

City of Bellevue
Parks & Community Services

90% REVIEW SUBMITTAL

KPG
Interdisciplinary Design
SEATTLE
3131 Elliott Ave
Suite 400 WA 98121
(206) 286 1640
Tacoma
Wenatchee
Bellevue
www.kpg.com

164TH AVENUE NE
NE 8TH ST TO NORTHUP WAY LID RETROFIT

IRRIGATION PLANS
164TH AVE NE STA 32+00 TO STA 38+00

IRR106 SHT 18 OF 24

TREE SCHEDULE

SYMBOL		BOTANICAL NAME/COMMON NAME	QTY	QTY (SWALE/ BIORETENTION BACK OF WALK)	SIZE	REMARKS
	STREET TREES					
	T1	ACER CAMPESTRE 'PANACEK'/ METRO GOLD MAPLE	18	0	2.5" CAL. 12'-14' HT.	B&B; WELL BRANCHED
	T2	CARPINUS CAROLINIANA `CCSQU`/ PALISADE AMERICAN HORNBEAM	13	0	2.5" CAL. 12'-14' HT.	B&B; WELL BRANCHED
	ACCENT TREES					
	T3	ACER CIRCINATUM/ VINE MAPLE	27	27	3-5 CANE MIN. 4'-5' HT.	B&B; WELL BRANCHED
	T4	OXYDENDRON ARBOREUM/ SOURWOOD TREE	14	19	2" CAL. 10'-12' HT.	B&B; WELL BRANCHED
	T5	MAGNOLIA 'ELIZABETH'/ ELIZABETH MAGNOLIA	2	0	2" CAL. 10'-12' HT.	B&B; WELL BRANCHED
	T6	MAGNOLIA 'GALAXY'/ GALAXY MAGNOLIA	20	3	3-5 CANE MIN. 4'-5' HT.	B&B; WELL BRANCHED

PLANT SCHEDULE

SYMBOL		BOTANICAL NAME/COMMON NAME	QTY	QTY (SWALE/ BIORETENTION BACK OF WALK)	SIZE	REMARKS
	SHRUBS					
	S1	CORNUS STOLONIFERA 'FARROW'/ ARCTIC FIRE REDTWIG DOGWOOD	16	0	2 GAL. CONT.	48" O.C. TRI. SP. TYP.
	S2	SPIRAEA BETULIFOLIA `TOR` / TOR BIRCHLEAF SPIREA	212	0	2 GAL. CONT.	48" O.C. TRI. SP. TYP.
	S3	PHYSOCARPUS OPULIFOLIUS 'DIABOLO'/ DIABOLO NINEBARK	34	0	2 GAL. CONT.	48" O.C. TRI. SP. TYP.
	S4	RIBES SANGUINEUM 'KING EDWARD VII'/ KING EDWARD VII FLOWERING CURRENT	0	4	2 GAL. CONT.	48" O.C. TRI. SP. TYP.
	S5	ROSA RUGOSA 'SNOW PAVEMENT'/ SNOW PAVEMENT ROSE	9	5	2 GAL. CONT.	42" O.C. TRI. SP. TYP.
	S6	RHODODENDRON 'CURLEW'/ CURLEW RHODODENDRON	115	0	2 GAL. CONT.	36" O.C. TRI. SP. TYP.
	S7	VACCINIUM OVATUM 'THUNDERBIRD'/ THUNDERBIRD EVERGREEN HUCKLEBERRY	0	36	2 GAL. CONT.	36" O.C. TRI. SP. TYP.
	S8	CORNUS SERICEA `KELSEYII` / DWARF REDTWIG DOGWOOD	382	0	1 GAL. CONT.	30" O.C. TRI. SP. TYP.
	S9	ILEX CRENATA 'SKY PENCIL'/ SKY PENCIL JAPANESE HOLLY	0	67	1 GAL. CONT.	30" O.C. TRI. SP. TYP.
	S10	BERBERIS THUNBERGII 'HELMOND PILLAR'/ HELMOND PILLAR BARBERRY	0	69	1 GAL. CONT.	30" O.C. TRI. SP. TYP.
B	S11	BERBERIS THUNBERGII 'MARIA'/ SUNJOY GOLD PILLAR BARBERRY	0	29	1 GAL. CONT.	30" O.C. TRI. SP. TYP.
N	S12	NANDINA DOMESTICA 'EMERALD SEA'/ EMERALD SEA HEAVENLY BAMBOO	0	55	1 GAL. CONT.	30" O.C. TRI. SP. TYP.
	PLANTED SWALE & BIORETENTION GRASSES					
	G1	JUNCUS TENUIS 'BLUE DART'/ BLUE DART RUSH	385	0	1 GAL. CONT.	18" O.C. TRI. SP. TYP.
	G2	SISYRINCHIUM CALIFORNICUM/ GOLDEN-EYED GRASS	385	0	1 GAL. CONT.	18" O.C. TRI. SP. TYP.
	G3	CAREX MERTENSII/ MERTEN'S SEDGE	215	0	1 GAL. CONT.	24" O.C. TRI. SP. TYP.
	G4	CAREX LAXICULMIS 'HOBB'/ BLUE BUNNY SEDGE	370	0	1 GAL. CONT.	18" O.C. TRI. SP. TYP.
	G5	CAREX ELATA 'BOWLES GOLDEN'/ BOWLES GOLDEN SEDGE	210	0	1 GAL. CONT.	24" O.C. TRI. SP. TYP.
	G6	IRIS DOUGLASIANA/ DOUGLAS IRIS	185	0	1 GAL. CONT.	18" O.C. TRI. SP. TYP.
	G7	IRIS TENAX/ TOUGH-LEAF IRIS	185	0	1 GAL. CONT.	18" O.C. TRI. SP. TYP.
	GRASSES					
	G7	CALAMAGROSTIS ACUTIFLORA 'KARL FOERSTER'/ KARL FOERSTER FEATHER REED GRASS	0	83	1 GAL. CONT.	24" O.C. TRI. SP. TYP.
	G8	PANICUM VIRGATUM 'ROTSTRAHLBUSCH'/ ROTSTRAHLBUSCH SWITCH GRASS	18	42	1 GAL. CONT.	36" O.C. TRI. SP. TYP.

PLANT SCHEDULE

SYMBOL		BOTANICAL NAME/COMMON NAME	QTY	QTY (SWALE/ BIORETENTION BACK OF WALK)	SIZE	REMARKS
	PERENNIALS					
	P1	EUTROCHIUM DUBIUM 'BABY JOE'/ BABY JOE DWARF PYE WEED	200	100	1 GAL. CONT.	24" O.C. TRI. SP. TYP.
	P2	STACHYS OFFICINALIS 'HUMELO'/ HUMMELO BETONY	90	70	1 GAL. CONT.	18" O.C. TRI. SP. TYP.
	P3	AGASTACHE 'SUMMER LOVE'/ SUMMER LOVE AGASTACHE	125	60	1 GAL. CONT.	24" O.C. TRI. SP. TYP.
	GROUNDCOVERS					
	GC1	MAHONIA REPENS/ CREEPING OREGON GRAPE	300	230	1 GAL. CONT.	24" O.C. TRI. SP. TYP.
	GC2	POLYSTICHUM MUNITUM/ SWORD FERN	300	230	1 GAL. CONT.	24" O.C. TRI. SP. TYP.
	GC3	LEUCOTHOE FONTANESIANA 'NANA'/ DWARF LEUCOTHOE	165	200	1 GAL. CONT.	18" O.C. TRI. SP. TYP.
	GC4	BERGENIA CORDIFOLIA 'WNTERGLUT'/ WINTER GLOW BERGENIA	205	140	1 GAL. CONT.	24" O.C. TRI. SP. TYP.
	GC5	EPIMEDIUM X RUBRUM / RED BARRENWORT	455	0	1 GAL. CONT.	18" O.C. TRI. SP. TYP.

GENERAL NOTES

1. ALL PLANT MATERIALS SHALL MEET THE AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1 MOST CURRENT VERSION.
2. PLANT, MAINTAIN AND WARRANTY AS PER SPECIAL PROVISIONS.
3. DO NOT SUBSTITUTE SPECIES WITHOUT THE APPROVAL OF ENGINEER.
4. INSTALL 2" MULCH OVER ALL DISTURBED AREAS NOT BEING PLANTED OR SEEDED, UNLESS OTHERWISE NOTED.
5. PROPERTY RESTORATION TO BE DONE AS DIRECTED BY THE PROJECT ENGINEER.
6. STREET TREES AND ALL SINGLE-STEM ACCENT TREES SHALL MEET WSDOT "STREET TREE GRADE" STANDARD AND SHALL BRANCH AT MIN. 6' ABOVE ROOTBALL.

NO.	DATE	BY	APPR.	REVISIONS

TF 08/2021 DESIGNED BY DATE
TF 08/2021 DRAWN BY DATE
CS 08/2021 CHECKED BY DATE

City of Bellevue
Parks & Community Services

90% REVIEW SUBMITTAL

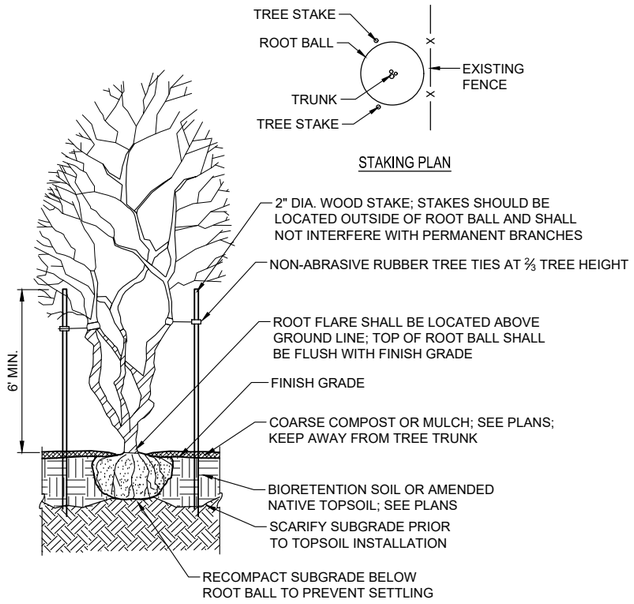
KPG
Interdisciplinary Design
SEATTLE
3131 Elliott Ave
Suite 400 WA 98121
(206) 286 1640
Tacoma
Wenatchee
Bellevue
www.kpg.com

164TH AVENUE NE
NE 8TH ST TO NORTHUP WAY LID RETROFIT

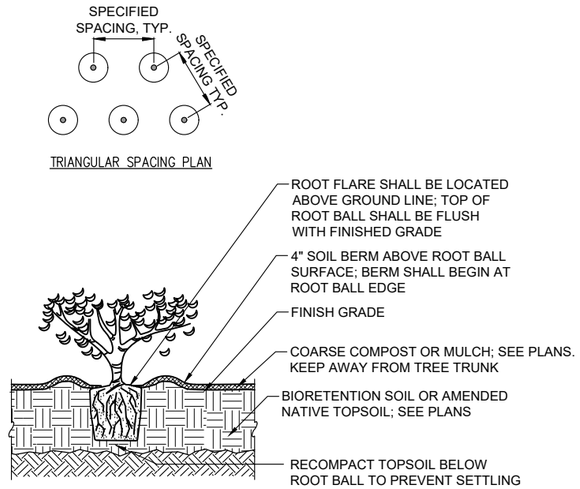
LANDSCAPE
LANDSCAPE SCHEDULE & DETAILS

LS101

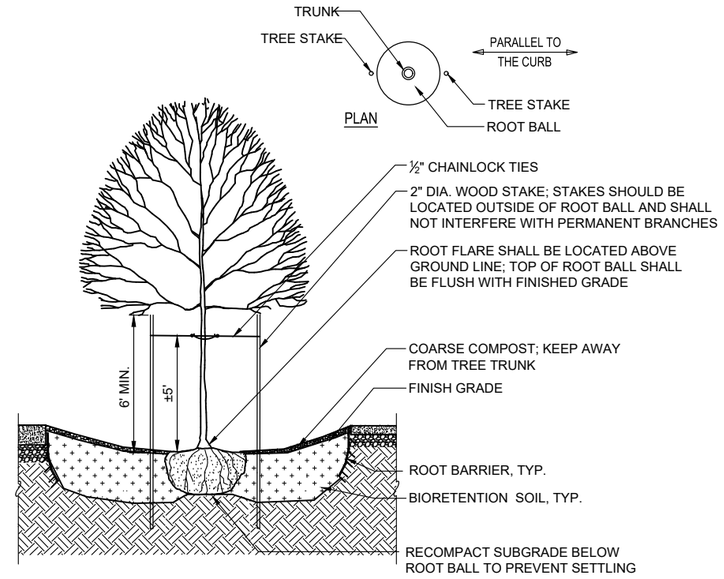
SHT 19 OF 24



TYPICAL MULTI-STEM TREE PLANTING DETAIL
NTS

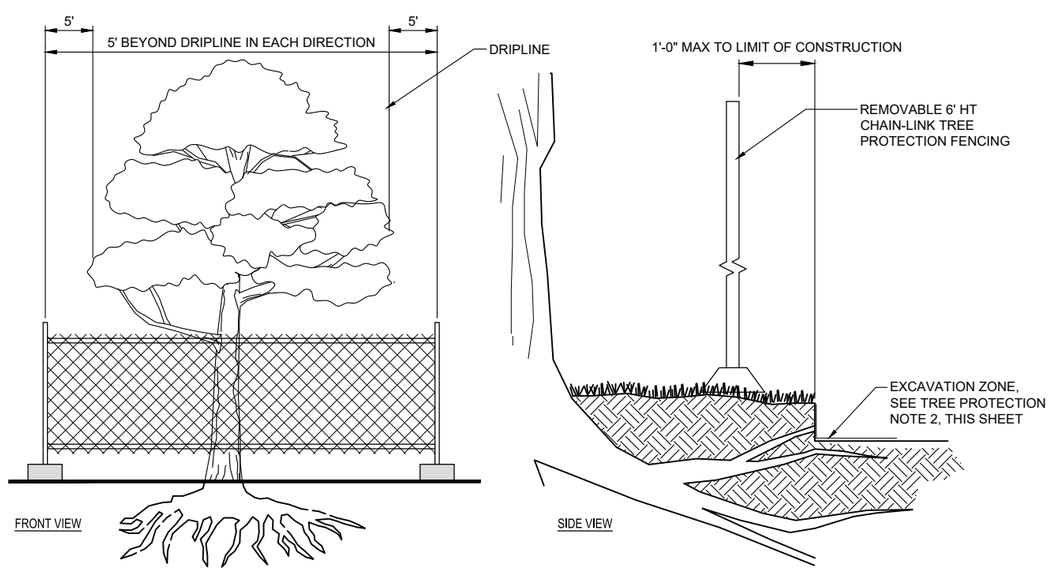


TYPICAL SHRUB/GROUNDCOVER PLANTING DETAIL
NTS



TYPICAL DECIDUOUS TREE PLANTING DETAIL IN BIORETENTION SWALE
NTS

NOTE: SWALE SECTION SHOWN IS DIAGRAMMATIC; SEE TYPICAL SECTIONS FOR BIORETENTION SWALE SECTION



TREE PROTECTION DETAIL
NTS

TREE PLANTING NOTES

1. TREE PIT SHALL NOT BE LESS THAN (3) TIMES ROOTBALL DIAMETER.
2. CUT ALL TIES AND REMOVE BURLAP FROM ROOTBALL.
3. REMOVE ALL PLASTIC AND TWINE.
4. BACKFILL TOPSOIL AROUND ROOT BALL IN 6" LIFTS AND LIGHTLY RECOMPACT EACH LIFT; AFTER BACKFILLING, WATER IN ROOT BALL TO SETTLE THE SOIL.
5. PLANT TREES WITH ROOT FLARE VISIBLE; DO NOT COVER TOP OF ROOTBALL WITH SOIL.

TREE PROTECTION NOTES

1. SIX-FOOT-HIGH CHAIN-LINK FENCE SHALL BE PLACED AT LIMITS OF CONSTRUCTION AND SHALL EXTEND 5' IN BOTH DIRECTIONS BEYOND THE DRIPLINE OF TREE TO BE SAVED. INSTALL FENCE POSTS USING PIER BLOCKS ONLY. AVOID DRIVING POSTS OR STAKES INTO MAJOR ROOTS.
2. TREATMENT OF ROOTS EXPOSED DURING CONSTRUCTION: FOR ROOTS OVER 1" IN DIAMETER DAMAGED DURING CONSTRUCTION; MAKE A CLEAN, STRAIGHT CUT TO REMOVE DAMAGED PORTION OF ROOT. ALL EXPOSED ROOTS SHALL BE TEMPORARILY COVERED WITH DAMP BURLAP TO PREVENT DRYING, AND COVERED WITH SOIL AS SOON AS POSSIBLE.
3. WORK WITHIN PROTECTION FENCE SHALL BE DONE MANUALLY. NO STOCKPILE OF MATERIALS, VEHICULAR TRAFFIC, OR STORAGE OF EQUIPMENT OR MACHINERY SHALL BE ALLOWED WITHIN THE LIMITS OF THE FENCING.
4. PORTIONS OF TREE PROTECTION FENCING MAY BE MOVED 1/3 INTO THE PRESCRIBED TREE PROTECTION AREA IF UNABLE TO PROTECT ENTIRE AREA. THIS IS ONLY PERMITTED FOR PORTIONS OF THE PRESCRIBED TREE PROTECTION AREA THAT ARE IN CONFLICT WITH CONSTRUCTION ACTIVITIES BASED UPON ENGINEER'S APPROVAL.
5 ALL TREES NOTED FOR REMOVAL SHALL BE APPROVED BY ENGINEER PRIOR TO START OF CONSTRUCTION ACTIVITIES.
6. ALL TREES TO REMAIN WITHIN CLEARING AND GRUBBING LIMITS, SHALL BE TAGGED FOR APPROVAL BY ENGINEER, PRIOR TO START OF CONSTRUCTION ACTIVITIES.
7. MAINTAIN FENCING IN PLACE UNTIL THE CITY AUTHORIZES REMOVAL OR A FINAL APPROVAL IS ISSUED.
8. SIGNS SHALL BE ATTACHED TO THE TREE PROTECTION FENCING STATING THAT THE TREE IS DESIGNATED FOR PROTECTION AND THE AREA INSIDE OF THE FENCE IS NOT TO BE DISTURBED UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE ENGINEER.
9. TREE PROTECTION FENCING SHALL BE CONSOLIDATED AROUND SIGNIFICANT GROUPINGS OF EXISTING TREES TO REMAIN WHERE POSSIBLE; TREE PROTECTION FENCING MUST MAINTAIN MINIMUM OFFSET FROM TREE TRUNKS AS PRESCRIBED IN TABLE, THIS SHEET.

TREE PROTECTION FENCING OFFSETS

TREE AGE	MIN. OFFSET FROM TRUNK
YOUNG (<20% OF LIFE EXPECT.)	0.75' PER 1" OF TRUNK DIA.
MATURE (20–80% OF LIFE EXPECT.)	1.00' PER 1" OF TRUNK DIA.
OVER MATURE (>80% OF LIFE EXPECT.)	1.50' PER 1" OF TRUNK DIA.

NO.	DATE	BY	APPR.	REVISIONS

TF 08/2021 DESIGNED BY DATE
TF 08/2021 DRAWN BY DATE
CS 08/2021 CHECKED BY DATE

City of Bellevue
Parks & Community Services

90% REVIEW SUBMITTAL

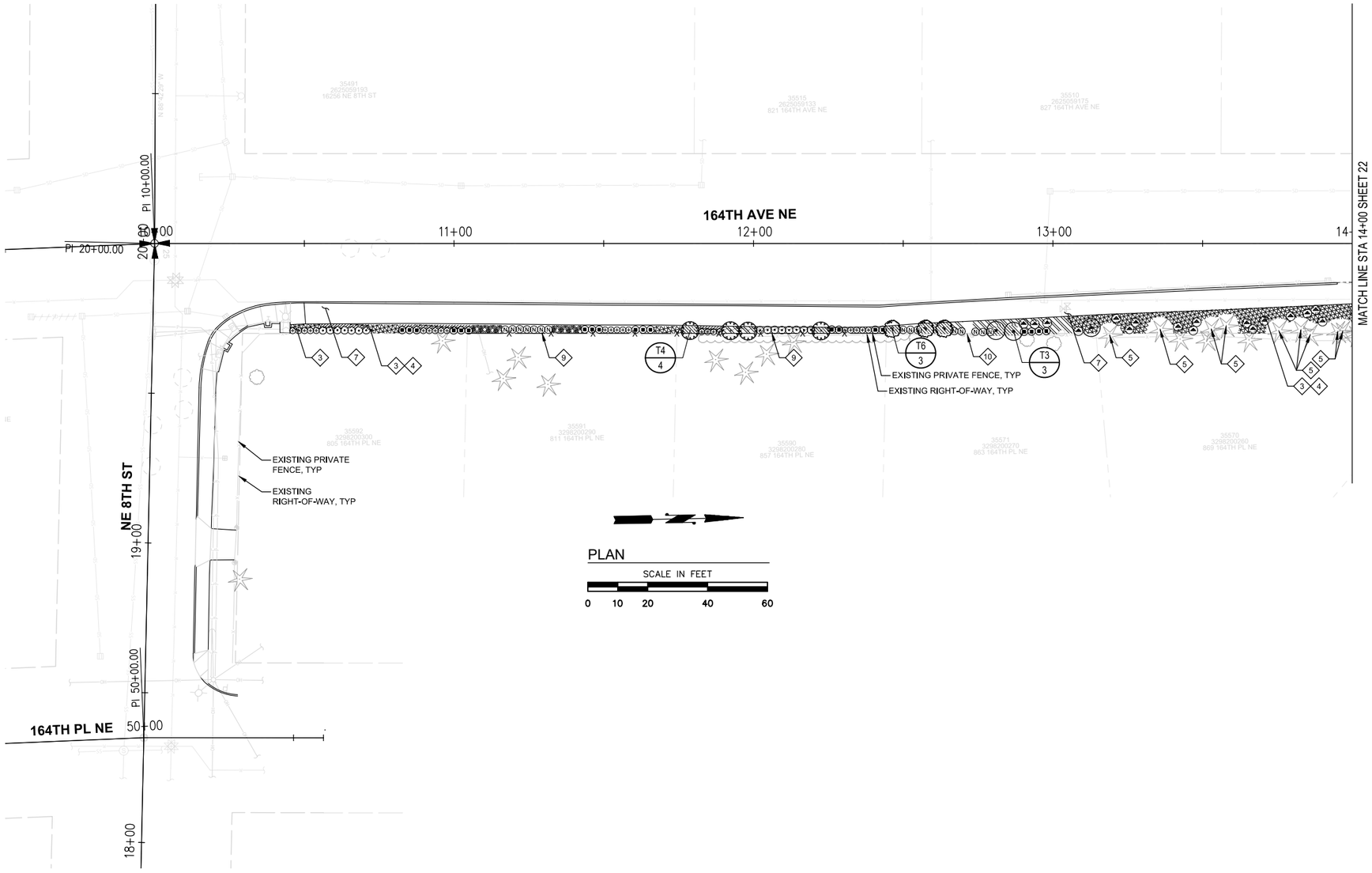
KPG
Interdisciplinary Design
SEATTLE
3131 Elliott Ave
Suite 400 WA 98121
(206) 286 1640
Tacoma
Wenatchee
Bellevue
www.kpg.com

164TH AVENUE NE
NE 8TH ST TO NORTHUP WAY LID RETROFIT

LANDSCAPE
LANDSCAPE DETAILS

LS102

SHT 20 OF 24



PLAN

SCALE IN FEET

0 10 20 40 60

CONSTRUCTION NOTES

3. BACK-OF-WALK PLANTING AREA; AMEND EXISTING SOIL WITH 2" FINE COMPOST AND TOPDRESS WITH 2" MULCH, TYP. NO SOIL AMENDMENT REQUIRED WITHIN DRIPLINE OF EXISTING TREES TO REMAIN OR WHERE SIGNIFICANT TREE ROOTS ARE ENCOUNTERED.
4. PLANT LAYOUT IN THIS AREA TO BE ADJUSTED IN THE FIELD BASED ON LOCATIONS OF EXISTING TREE ROOTS. MAINTAIN MIN. 4' OFFSET FROM BASE OF EXISTING TREE FOR ALL NEW SHRUB AND GROUNDCOVER PLANTINGS.
5. EXISTING TREE TO REMAIN; SAVE AND PROTECT PER DETAIL, SHEET LS102.
7. EXISTING ASPHALT PATHWAY, TYP.
9. WOOD PRIVACY FENCE PER BELLEVUE STANDARD DETAIL PK-FE-06.
10. EXISTING GATE; DO NOT PLANT IN FRONT OF GATE OPENING.

A/1 — A: PLANT SYMBOL; 1: PLANT QUANTITY

SEE SHEETS LS101-LS102 FOR LANDSCAPE SCHEDULE, DETAILS AND GENERAL NOTES

NO.	DATE	BY	APPR.	REVISIONS

TF 08/2021 DESIGNED BY DATE
TF 08/2021 DRAWN BY DATE
CS 08/2021 CHECKED BY DATE

City of Bellevue
Parks & Community Services

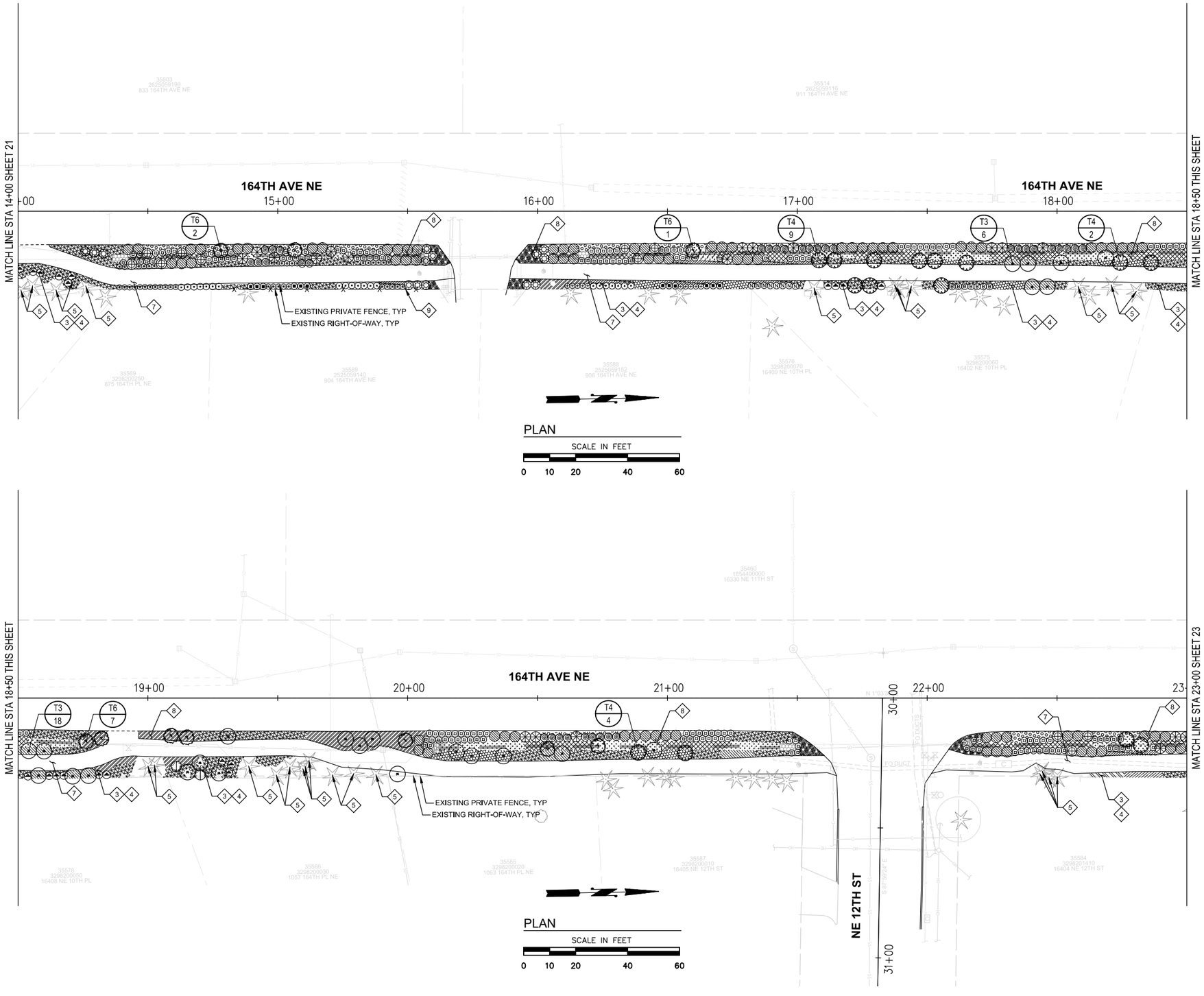
90% REVIEW SUBMITTAL

KPG Interdisciplinary Design
SEATTLE 3131 Elliott Ave Suite 400 WA 98121 (206) 286 1640
Tacoma Wenatchee Bellevue www.kpg.com

164TH AVENUE NE
NE 8TH ST TO NORTHUP WAY LID RETROFIT

LANDSCAPE PLANS
164TH AVE NE STA 9+50 TO STA 14+00
NE 8TH ST STA 18+00 TO STA 20+00

LS103 SHT 21 OF 24



CONSTRUCTION NOTES

3. BACK-OF-WALK PLANTING AREA; AMEND EXISTING SOIL WITH 2" FINE COMPOST AND TOPDRESS WITH 2" MULCH, TYP. NO SOIL AMENDMENT REQUIRED WITHIN DRIPLINE OF EXISTING TREES TO REMAIN OR WHERE SIGNIFICANT TREE ROOTS ARE ENCOUNTERED.
4. PLANT LAYOUT IN THIS AREA TO BE ADJUSTED IN THE FIELD BASED ON LOCATIONS OF EXISTING TREE ROOTS. MAINTAIN MIN. 4' OFFSET FROM BASE OF EXISTING TREE FOR ALL NEW SHRUB AND GROUNDCOVER PLANTINGS.
5. EXISTING TREE TO REMAIN; SAVE AND PROTECT PER DETAIL, SHEET LS102.
7. EXISTING ASPHALT PATHWAY, TYP.
8. PLANTED SWALE AREA; AMEND EXISTING SOIL WITH 3" FINE COMPOST AS SHOWN IN THE TYPICAL SECTIONS, SHEET CIV102, AND TOPDRESS WITH 3" COARSE COMPOST, TYP. TOPSOIL TYPE B SHALL BE USED IN ALL AREAS REQUIRING ADDITIONAL FILL AND SHALL BE AMENDED AS OUTLINED ABOVE.

A
1
PLANT SYMBOL
PLANT QUANTITY

SEE SHEETS LS101-LS102 FOR LANDSCAPE SCHEDULE, DETAILS AND GENERAL NOTES

NO.	DATE	BY	APPR.	REVISIONS

TF 08/2021 DESIGNED BY DATE
TF 08/2021 DRAWN BY DATE
CS 08/2021 CHECKED BY DATE

City of Bellevue
Parks & Community Services

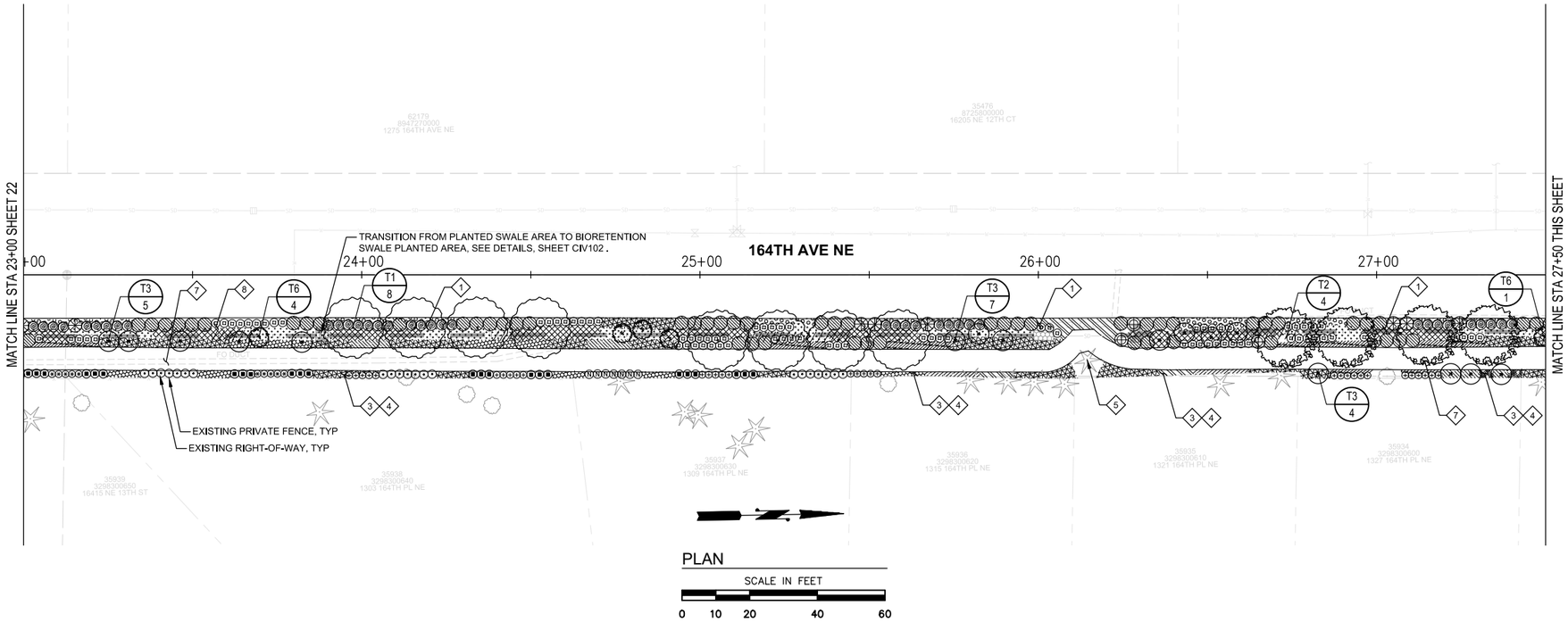
90% REVIEW SUBMITTAL

KPG Interdisciplinary Design
SEATTLE 3131 Elliott Ave Suite 400 WA 98121 (206) 286 1640
Tacoma Wenatchee Bellevue www.kpg.com

164TH AVENUE NE
NE 8TH ST TO NORTHUP WAY LID RETROFIT

LANDSCAPE PLANS
164TH AVE NE STA 31+00 TO STA 30+00
NE 12TH ST STA 31+00 TO STA 30+00

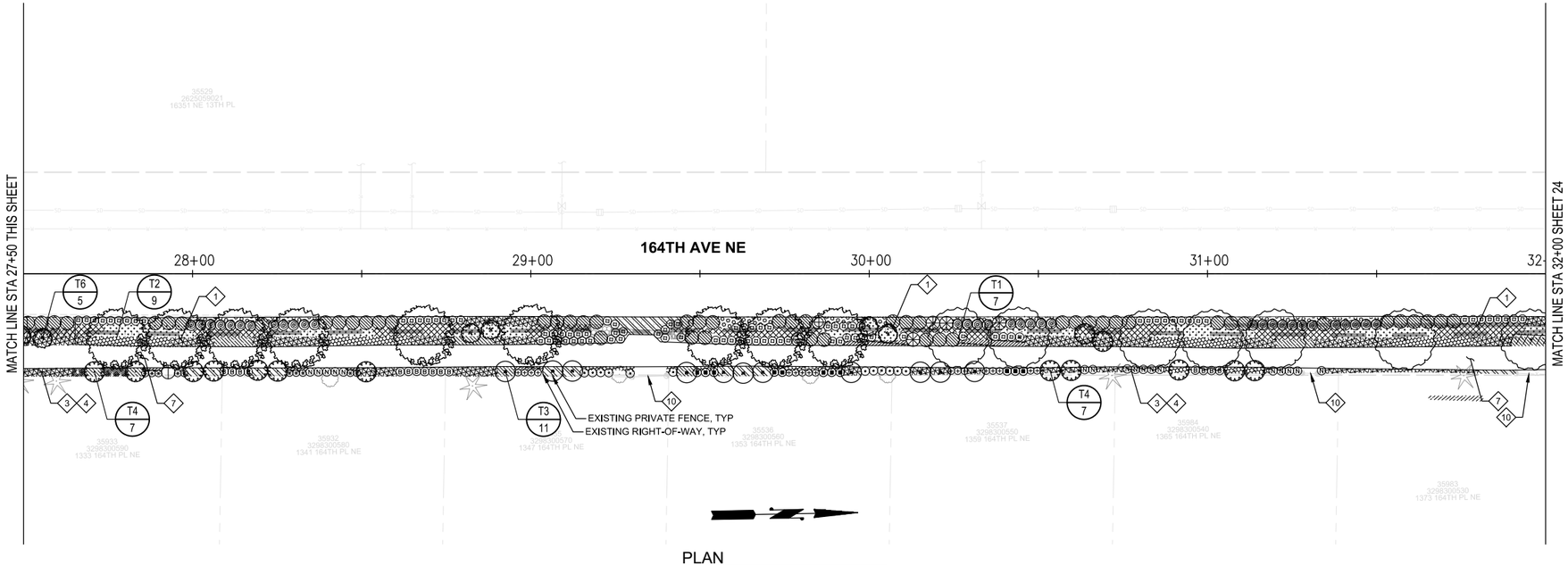
LS104 SHT 22 OF 24



PLAN

SCALE IN FEET

0 10 20 40 60



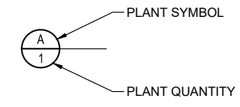
PLAN

SCALE IN FEET

0 10 20 40 60

CONSTRUCTION NOTES

1. BIORETENTION SWALE PLANTING AREA; INSTALL 18" BIORETENTION SOIL AND 3" COARSE COMPOST, SEE DRAINAGE DETAILS, SHEETS CIV101-CIV102.
3. BACK-OF-WALK PLANTING AREA; AMEND EXISTING SOIL WITH 2" FINE COMPOST AND TOPDRESS WITH 2" MULCH, TYP. NO SOIL AMENDMENT REQUIRED WITHIN DRIPLINE OF EXISTING TREES TO REMAIN OR WHERE SIGNIFICANT TREE ROOTS ARE ENCOUNTERED.
4. PLANT LAYOUT IN THIS AREA TO BE ADJUSTED IN THE FIELD BASED ON LOCATIONS OF EXISTING TREE ROOTS. MAINTAIN MIN. 4' OFFSET FROM BASE OF EXISTING TREE FOR ALL NEW SHRUB AND GROUNDCOVER PLANTINGS.
5. EXISTING TREE TO REMAIN; SAVE AND PROTECT PER DETAIL, SHEET LS102.
7. EXISTING ASPHALT PATHWAY, TYP.
8. PLANTED SWALE AREA; AMEND EXISTING SOIL WITH 3" FINE COMPOST AS SHOWN IN THE TYPICAL SECTIONS, SHEET CIV102, AND TOPDRESS WITH 3" COARSE COMPOST, TYP. TOPSOIL TYPE B SHALL BE USED IN ALL AREAS REQUIRING ADDITIONAL FILL AND SHALL BE AMENDED AS OUTLINED ABOVE.
10. EXISTING GATE; DO NOT PLANT IN FRONT OF GATE OPENING.



SEE SHEETS LS101-LS102 FOR LANDSCAPE SCHEDULE, DETAILS AND GENERAL NOTES

NO.	DATE	BY	APPR.	REVISIONS

TF	08/2021
DESIGNED BY	DATE
TF	08/2021
DRAWN BY	DATE
CS	087/2021
CHECKED BY	DATE

City of Bellevue
Parks & Community Services

90% REVIEW SUBMITTAL

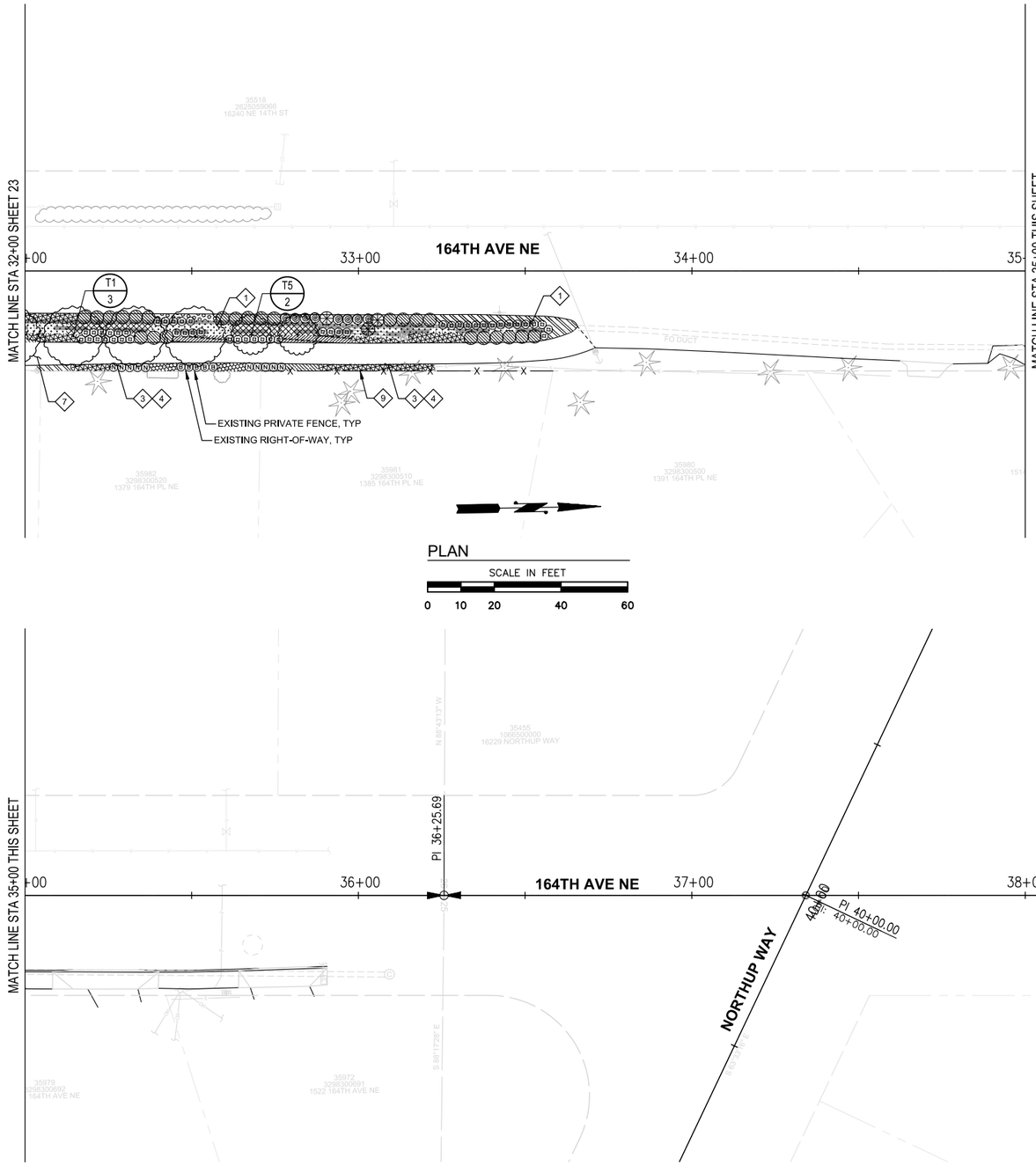
KPG
Interdisciplinary Design
SEATTLE
3131 Elliott Ave
Suite 400 WA 98121
(206) 286 1640
Tacoma
Wenatchee
Bellevue
www.kpg.com

164TH AVENUE NE
NE 8TH ST TO NORTHUP WAY LID RETROFIT

LANDSCAPE PLANS
164TH AVE NE STA 23+00 TO STA 32+00

LS105

SHT 23 OF 24



PLAN

SCALE IN FEET

0 10 20 40 60

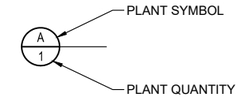
PLAN

SCALE IN FEET

0 10 20 40 60

CONSTRUCTION NOTES

1. BIORETENTION SWALE PLANTING AREA; INSTALL 18" BIORETENTION SOIL AND 3" COARSE COMPOST, SEE DRAINAGE DETAILS, SHEETS CIV101-CIV102.
3. BACK-OF-WALK PLANTING AREA; AMEND EXISTING SOIL WITH 2" FINE COMPOST AND TOPDRESS WITH 2" MULCH, TYP. NO SOIL AMENDMENT REQUIRED WITHIN DRIPLINE OF EXISTING TREES TO REMAIN OR WHERE SIGNIFICANT TREE ROOTS ARE ENCOUNTERED.
4. PLANT LAYOUT IN THIS AREA TO BE ADJUSTED IN THE FIELD BASED ON LOCATIONS OF EXISTING TREE ROOTS. MAINTAIN MIN. 4' OFFSET FROM BASE OF EXISTING TREE FOR ALL NEW SHRUB AND GROUNDCOVER PLANTINGS.
7. EXISTING ASPHALT PATHWAY, TYP.
9. WOOD PRIVACY FENCE PER BELLEVUE STANDARD DETAIL PK-FE-06.



SEE SHEETS LS101-LS102 FOR LANDSCAPE SCHEDULE, DETAILS AND GENERAL NOTES

NO.	DATE	BY	APPR.	REVISIONS

TF	08/2021
DESIGNED BY	DATE
TF	08/2021
DRAWN BY	DATE
CS	08/2021
CHECKED BY	DATE

City of Bellevue
Parks & Community Services

90% REVIEW SUBMITTAL

KPG
Interdisciplinary Design
SEATTLE
3131 Elliott Ave
Suite 400 WA 98121
(206) 286 1640
Tacoma
Wenatchee
Bellevue
www.kpg.com

164TH AVENUE NE
NE 8TH ST TO NORTHUP WAY LID RETROFIT

LANDSCAPE PLANS
164TH AVE NE STA 32+00 TO STA 38+00

LS106

SHT 24 OF 24